DESALINATION

THE INTERNATIONAL JOURNAL ON THE SCIENCE AND TECHNOLOGY OF DESALTING AND WATER PURIFICATION

Cumulative Subject Index

January 1966 – July 1997

Volumes 1–110

Miriam Balaban, Editor

Elsevier Science, Publisher

Absorption

Absorption freezing vapor compression: process selection, pilot plant design, process economics
J.H. Fraser 33(1980)85-98

An absorption-desorption stack for cyclic electrodialysis in open system
M.E. Abu Goukh and D.W. Thompson 46(1983)211-223

Heavy metals in wastewater to the Nile
S. El-Rafei, S. El-Shawarby and F.A. Fahim 67(1987)355-362

Humidity water vapour collection by absorption cooling machines
S.E. Aly 73(1989)139-165

Determination of a liquid state from that of liquid solution coupled to it by a common vapor phase
L.C. Dickey and J.C. Craig, Jr. 78(1990)397-401

Hydrogen absorption and its prevention of titanium in a simulated descaling environment in a desalination plant
H. Satoh 97(1994)45-51

Acetic acid

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis
H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato 25(1978)89-97

Acid additives

Toxicological aspects of scale preventative agents used in desalination equipment for drinking water by desalination
R. Leimgruber 30(1979)615-620, Err. 30(1979)401

A review of scale control methods
N. M. Wade 31(1979)309-320

Acid cleaning and passivation of power plant condensers and desalination plants
R. Cigna, A. De Maio, L. Giuliani and G. Gusmano 38(1981)269-279

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

A study of combined acid/additive seawater feed treatment
B. Cox 51(1984)149-162

Field trials of hybrid acid-additive treatment for control of scale in MSF plants
F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin 54(1985)307-320

Electrochemical monitoring of the process of boiler cleaning
A.M. Shams El Din and A.M.K. Tag El Din 75(1989)171-184

Acid dosed plants

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Chemical descaling of acid dosed desalination plants
K. Harding, D.A. Bridle and F. Thorne 27(1978)273-282

Corrosion measurement and assessment in acid dosed desalination plants
K. Harding and D.A. Bridle 28(1979)89-108

Comparison of corrosion and scaling behaviour of two acid-dosed MSF seawater distillation plants
F.C. Wood and Y.N. Wu 30(1979)347-358

Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants
R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori 47(1983)93-102

Acid recovery

Recovery of acid from wastewater by electrodialysis
K. Urano, T. Ase and Y. Naito 51(1984)213-226

Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids
R. Oláh and K. Vadasdi 67(1987)547-557

Aquatech membrane technology for recovery of acid/base values from salt streams
K.N. Mani, F.P. Chlanda and C.H. Byszewski 68(1988)149-166

Recovery of acid and water by membrane dialysis
G. Wisniewska, J. Wisniewski and T. Winnicki 91(1993)307-317

Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons
A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach 101(1995)141-153

Acid soot formation

Jeddah stack emissions problems and solutions
A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch 73(1989)459-470

Acid treatment

The MSF desalination process: A comparison of acid and polyphosphate treatment plants
K. Hill 25(1978)111-122

Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant
S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini 38(1981)185-199

Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature
R. Zannoni, I. Resini and R. Lucenti 66(1987)109-118

Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes
G. Wisniewska and T. Winnicki 68(1988)121-130

0011-9164/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved.
PII S0011-9164(97)00108-2

Acsode

Automatic control system of MSF process (Acsode®)
A. Furuki, K. Hamanaka, M. Tatsumoto and S. Inohara
55(1985)77-89

Activated carbon

An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon
S. Iwai, H. Ohmori and T. Tanaka
23(1977)29-36, Err. 25(1978)215

Reuse of drainage from an office building
S. Iwai, T. Kitao, H. Ohmori and K. Inujima 23(1977)171-181, Err. 25(1978)215

Water reuse with granular activated carbon
K. Urano 23(1977)533-540

Water treatment by pitch-based activated carbon fiber
N. Shindo, Y. Otani, G. Inoue and K. Kawazoe 98(1994)155-160

Reclaimed water — An untapped resource
J.(H.) van Leeuwen
106(1996)233-240

Treatment of surface water rich in humus — Membrane filtration vs. conventional treatment
B. Ericsson and G. Trägårdh
108(1996)117-128

Activated sludge process

Substitution of the final clarifier by membrane filtration within the activated sludge process with increased pressure. Initial findings
K. Krauth and K.F. Staab
68(1988)179-189

Organic waste water treatment by activated sludge process using integrated type membrane separation
O. Futamura, M. Katoh and K. Takeuchi 98(1994)17-25

Biomembrane wastewater treatment by activated sludge method
M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny 107(1996)83-95

Additives

Evaluation of various additives at Jubail Phase I during reliability trials
N. Nada 51(1984)137-148

The study of action of organic additives in polysulfonamide UF membranes
Guonghei Fan, Chaojun Zhang and Lingying Zheng 56(1985)325-332

Additive scale control optimization and operation modes
M. A. Al-Sofi, M. A. Al-Hussain and S. G. Al-Zahrani 66(1987)11-32

Aspects of additives in precipitation process: performance of polycarboxylates in gypsum growth prevention
M.C. van der Leeden and G.M. van Rosmalen 66(1987)185-200

Adiabatic evaporation

Optimization of basic parameters of thermal desalting plants with adiabatic evaporation
A.I. Korneichev, A.V. Izvekov and A.A. Myagkov 7(1970)179-186

Adsorption

An ion-exchange process with thermal regeneration. VII. The rates of neutralization of weak electrolyte resins
B.A. Bolto and R.E. Warner
8(1970)21-34

Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins
R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel 79(1990)217-231

Influence of covalent attachment of low molecular weight substances on the rejection and adsorption properties of crystalline proteinaceous ultrafiltration membranes
S. Küpcü, M. Sára and U.B. Sleytr
90(1993)65-76

Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent
M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson 101(1995)155-167

Adsorption, Nylon fiber gold

Recovery of gold from the plating rinse by adsorption with nylon fibers
M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato
29(1979)275-284

Ocean thermal energy and desalination
M. Rey and F. Lauro 39(1981)159-168

Adsorption, Water vapor

Adsorption of water on cellulose acetate membrane
Y. Kurokawa 36(1981)285-290

Aerobic treatment units

Aerobic treatment units (ATUs): Appropriate technology for on-site wastewater treatment and re-use
G. Ivery 106(1996)295-303

Aerobic/anaerobic conditions

Increase in phosphate removal from wastewater by alternating aerobic and anaerobic conditions
C. Sommariva, A. Converti and M. Del Borghi 108(1996)255-260

Agricultural waste water`

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

A method of using irrigation drainage water for power plant cooling
H.H. Sephton and G. Klein
19(1976)257-268, Err. 21(1977)234

Desalination of agricultural drains in Mexicali, B.C. *(in Spanish)*
R. Manjarrez and I.G. de Cosío
19(1976)499-504

Environmental and engineering problems of an agro-industrial complex for the North Eastern region of the Mediterranean
F. Elashmawi and A.A. Husseiny
20(1977)289-298

Desalination and the reuse of agricultural drainage waters in Saudi Arabia
A.M. Al-Taweel, A. Bushnak and W. Bawarith 32(1980)341-352

Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods
A. C. Molseed, J. R. Hunt and M. W. Cowin 61(1987)249-262

Desalination of agricultural drainage return water. Part II: Analysis of the performance of a13,000 GDP RO unit
B.J. Mariñas and R.E. Selleck 61(1987)263-274

The refinement and concentration of agricultural antibiotic A in aqueous solution using membrane processes
Cai Bang-xiao, Lang Kong-min, Liu Yu-rong and Chen Yi-ming 62(1987)341-351

A mathematical model of the cyclic operation of desalination-feedwater softening by ion-exchange with fluidized-bed regeneration
P. Shain, G. Klein and T. Vermeulen 69(1988)135-146

Desalination of agricultural drainage water
M.H. Sorour, A.G. Abulnour and H.A. Talaat 86(1992)63-75

Ultrafiltration of agricultural waste waters with organic and inorganic membranes
W. Reimann and I. Yeo 109(1997)263-267

Agriculture

Multieffect solar still for agricultural purposes in hot climate
M.S. Hassan, S. Toyama, K. Murase and M.A. Wahhab 71(1989)347-353

Agricultural achievements and irrigation management in Kuwait
L. Savvides 72(1989)207-214

Agriculture, waste water reuse in

Desalting saline ground water for agriculture
Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar 19(1976)175-188

Health and safety aspects of irrigation of raw eaten food crops with reused water
B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick 39(1981)491-502

Utilization of treated wastewaters and sewage sludge in agriculture in Tunisia
A. Bahri 67(1987)233-244

Reuse of tertiary municipal wastewater effluent for irrigation of raw-eaten food crops: A five year field study
B. Sheikh, R.S. Jaques and R.P. Cort 67(1987)245-254

Use of wastewater effluent in agriculture
W.J. Oswald 72(1989)67-80

Health considerations in using treated industrial and municipal effluents for irrigation
M.Y. Abdulraheem 72(1989)81-113

Towards the use of industrial wastewater for irrigation in Kuwait
I. Al-Shatti 72(1989)115-124

Possibilities of utilizing municipal and industrial wastewater effluents to condition soil
K. Puskas and I. Esen 72(1989)125-132

Agricultural achievements and irrigation management in Kuwait
L. Savvides 72(1989)207-214

Treated wastewaters as a growing water resource for agriculture use
I.S. Al-Mutaz 73(1989)27-36

Reuse of collected stormwater runoff for irrigation in Kuwait
B.A. Al-Hoti and R. Abdullah 75(1989)329-340

Irrigation with membrane plant concentrate: Fort Myers case study
E. Edwards and P. Bowdoin 78(1990)49-58

Strategy for wastewater reuse for agriculture in Southern Italy
L. Liberti and A. Lopez 83(1991)173-182

Egyptian experience in utilizing recycled water for irrigation purposes
S. Mukhamer and J. Ibrahim 93(1993)633

Economics of brackish and desalination water reuse for irrigation
Z. Shimron 98(1994)471-478

Air diffusers

Oxygenation phenomena as a function of sintered polymer structure of air diffusers
A. Poranek and T. Winnicki 48(1983)85-93

Air ejector systems

Studies on stainless steels for service in desalination plants
S. Nordin 44(1983)255-263

Air in-leakage

Vapour side corrosion in MSF plants
J. W. Oldfield and B. Todd 66(1987)171-184

Air/vapor separation

Silicon/non-silicone grafted blend composite membranes for air/vapor separation
D. Fritsch, K.-V. Peinemann and R.-D. Behling 90(1993)235-247

Dehumidification of atmospheric air as a potential source of fresh water in the UAE
A. Khalil 93(1993)587-596

Albrivap B

Evaluation of various additives at Jubail Phase I during reliability trials
N. Nada 51(1984)137-148

Alginate

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

Alkaline electrolysis

Advanced alkaline electrolysis with porous polymeric diaphragms
J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold 104(1996)47-57

Alloys

Method for extending heat exchanger and condenser life
C.P. Tallman, Sr. 73(1989)231-246

Evaluation of corrosion-resistant alloys for desalination applications
J.A. Carew, M. Abdel-Jawad and Y. Al-Wazzan 95(1994)53-74

Aluminium alloys

Increased solubility of calcium sulphate in sea water containing hydrochloric acid
O. Flint 4(1968)328-335

Investigation of inorganic ion exchange membranes for electrodialysis
H.K. Bishop, J.A. Bittles and G.A. Guter 6(1969)369-380

The corrosion of aluminium alloys in hot brine
J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence 9(1971)245-258

Alclose reverse osmosis system
S. Koga and K. Ushikoshi 23(1977)105-112

Pretreatment of seawater RO feed by means of coagulation-filtration
H. Tsuge, S. Suda and T. Matsumura 38(1981)425-436

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with some reducing agents at various temperatures
M. Iovchev and I. Bankovska 42(1982)221-228

Application potential of a modified aluminium alloy in Arabian Gulf desalination plants
Z. Ahmed and S. Rashidi 44(1983)265-276

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with calcium, magnesium and ferrous ions at various temperatures
M. Iovchev 52(1985)285-293

Pitting corrosion behaviour of aluminium in water desalination plants
M.G.A. Khedr, M.M.H. Badran and A.A. El-Azhari 72(1989)351-366

Corrosion behaviour of aluminium-base alloys in desalination plants
O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova 73(1989)457-458

Aluminum tubes

Modernizing the desalination industry
R.P. Hammond 107(1996)101-109

Aluminum-water system

Transfer characteristics of convex and concave rivulet flow on inclined surfaces with straight-edged grooves
R. Semiat, D. Moalem-Maron and S. Sideman 34(1980)267-287

Ammonium

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Pollution problems in a distillation process
T. Goto and T. Hakuta 23(1977)245-253

Treatment of uranium effluent by reverse osmosis membrane
Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh 71(1989)35-44

Amorphous phase structure

The structure of cellulose acetate membranes. II. The physical and transport characteristics of the porous layer of anisotropic membranes
R. Matz 11(1972)207-215

The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes
G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard 46(1983)435

Amphoteric membranes

An amphoteric ion-permselective membrane
F. de Körösy 16(1975)85-103

Amphoteric membrane preparation and their application to saline water hyperfiltration
F. Vigo, G. Capannelli and S. Munari 37(1981)313-324

Demineralization by electrodialysis using ampholytic ion-conducting spacers
K.P. Govindan and P.K. Narayanan 38(1981)517-527

Membrane phenomena of an amphoretic membrane in mixed electrolyte solution
A. Yamauchi, M. Shinoda and Y. Hirata 71(1989)277-287

NaCl diffusion across an amphoteric ion exchange membrane
A. Elmidaoui and C. Gavach 78(1990)343-354

Anaerobic digestion

A trial of high performance anaerobic treatment on wastewater from a kraft pulp mill
K. Minami 98(1994)273-283

Process performance comparison of membrane introduced anaerobic digestion using food industry waste water
Y. Yushina and J. Hasegawa 98(1994)413-421

Anaphoretic emulsion paint

Polyacrylonitrile and polyvinyl chloride ultrafiltration membranes in the treatment of anaphoretic emulsion paint
M. Bodzek and K. Konieczny 80(1991)43-60

Aniline

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Concentration by UF of hazardous effluents extracted into emulsions from water solutions; examples with aniline and azobenzene
M. Nyström 81(1991)117-127

Anion-conducting spacer

EDS: sealed cell electrodialysis
O. Kedem, J. Cohen, A. Warshawsky and N. Kahana 46(1983)291-299

Anion-exchange membranes

Fouling of anion-selective membranes in electrodialysis
E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch 8(1970)195-220

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

The poisoning of anion-selective membranes by sodium dodecylsulphate
E.J.M. Kobus and P.M. Heertjes 10(1972)383-401

The poisoning for anion-selective membranes by humic substances
E.J.M. Kobus and P.M. Heertjes 12(1973)333-342

Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants
R.B. Hodgdon, E. Witt and S.S. Alexander 13(1973)105-127

Anionic membranes of low permselectivity in pilot plant operation
E. Korngold 14(1974)359-367

Silica transport through charged membranes
G. Boari, C. Merli, R. Passino and G. Tiravanti 15(1974)3-10

Permeability of mono-carboxylate ions across an anion-exchange membrane
R. Dohno, T. Azumi and S. Takashima 16(1975)55-64

New anion-exchange membrane resistant to organic fouling
K. Kusumoto and Y. Mizutani 17(1975)111-120

Modification of anion-exchange membranes by oxidation of selected chemical sites for the purpose of preventing fouling during dialysis
K. Kusumoto, Y. Mizumoto and Y. Mitzutani 17(1975)303-311

Parametric tests of an electrodialysis reversal (EDR) system with aliphatic anion membranes
D. Elyanow, R.G. Parent and J.R. Mahoney 38(1981)549-565

Edge effects and orientation effects in electrodialysis
Q. Li, Y. Fang and M.E. Green 41(1982)47-55

Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material
W. Höll and B. Kiehling 48(1983)253-266

Polarization studies on interpolymer ion exchange membranes
V.K. Indusekhar and N. Krishnaswamy 48(1983)267-279

Research on elimination of chloromethylation in preparation on anion-exchange
Zongqing Li and Jianwu Ling 56(1985)421-430

Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes
G. Wisniewska and T. Winnicki 68(1988)121-130

Development of an acid impermeable anion exchange membrane
R. Simons 78(1990)297-302

Anion-exchange membranes with improved alkaline stability
B. Bauer, H. Strathmann and F. Effenberger 79(1990)125-144

Development of an anion-exchange membrane with increased permeability for organic acids of high molecular weight
W. Gudernatsch, C. Krumbholz and H. Strathmann 79(1990)249-260

Removal of nitrate by electrodialysis
V.K. Indusekhar, G.S. Trivedi and B.G. Shah 84(1991)213-221

Transfer of H_2SO_4, Na_2SO_4 and $ZNSO_4$ by dialysis through an anion exchange membrane
A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach 101(1995)39 -46

Transport mechanism of sulphuric acid through an anion exchange membrane
Y. Lorrain, G. Pourcelly and C. Gavach 109(1997)231-239

Anion-exchange resins

Exchange equilibria on anion resins
G. Boari, L. Liberti, C. Merli and R. Passino 15(1974)145-166

Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants
A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli 16(1975)135-149

Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates
L. Liberti, G. Boari and R. Passino 25(1978)123-134

Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges
L. Liberti, G. Boari and R. Passino 26(1978)181-194

Kinetic investigation of the chloride — sulphate exchange on anion-exchange resins
L. Liberti and G. Schmuckler 27(1978)253-260

Chloride-sulphate exchange on anion resins, kinetic investigations. VI. Differential exchange rates in diluted systems
L. Liberti, A. Pinto and R. Passino 29(1979)255-262

An advanced method for sea water chemical treatment in MSFD plants
A. De Maio, G. Odone, E. Palmisano and R. Zannoni 31(1979)321-331

Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins
L. Liberti, R. Passino and D. Petruzzelli 41(1982)199-207

Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange
L. Liberti, R. Passino and D. Petruzzelli 48(1983)55-66

Research on elimination of chloromethylation in preparation on anion-exchange
Zongqing Li and Jianwu Ling 56(1985)421-430

Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production
I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova 67(1987)163-170

Binary and ternary ion-exchange equilibria, SO_4^{2-}—Cl^-—NO_3^-—201 x 7 system
Tao Zuyi and Zhou Haimei
69(1988)125-134

Anisotropic membranes

The structure of cellulose acetate membranes. I. The development of porous structures in anisotropic membranes
R. Matz 10(1972)1-15

New polymer materials for reverse osmosis membranes
L. Credali, A. Chiolle and P. Parrini
14(1974)137-150

Annealing

Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis
J.L. Halary, C. Nöel and L. Monnerie
32(1980)65-76

Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation
M.N. de Pinho 68(1988)211-221

Aqueous streams

An electrochemical method for monitoring the oxygen content of aqueous streams at the part-per-billion level
R.E. Meyer, F.A. Posey and P.M. Lantz 11(1972)329-340

Aquifers

Water from fossil aquifers as a potential supply source for solar desalination plants on a regional scale
A. Issar and G. Oron 40(1982)25-32

Water resources research needs in the Arabian Gulf area
L. Hamdan 72(1989)3-7

Conjunctive wetland treatment/aquifer storage and recovery at Regent Gardens residential development, Northfield, South Australia
A.J. Emmett, S. Clarke and S. Howles
106(1996)407-410

Arid regions

Selection of solar desalination system for supply of water in remote arid zones
A.F. Abdul-Fattah 60(1986)165-189

A hardy, high-yield solar distiller of brackish water
R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff 67(1987)43-52

Water harvesting systems in arid lands
C.B. Ciuff 72(1989)149-159

Water resources management in arid climates
J.G. Milliken 72(1989)173-184

Water conservation in arid and semi-arid regions
A.A. Akkad 72(1989)185-205

Evaluation of reverse osmosis and evaporative desalination systems under feedwater supply constraints typical in arid countries
S.N. Talati 97(1994)353-361

Arid zones

Supply of desalted water to remote arid zones
A. F. Abdul-Fattah 60(1986)151-164

Artificial neural networks

Artificial neural networks and possible applications to desalination
M.E. El-Hawary 92(1993)125-147

Experience of using the neural network approach for identification of MSF desalination plants
A.F. Abdulbary, L.L. Lai, D.M.K. Al-Gobaisi and A. Husain
92(1993)323-331

Artificial recharge

Artificial recharge of groundwater and its role in water management
J.O. Kimrey 72(1989)135-147

Asymmetric membranes

Asymmetric behaviour of cellulose acetate membranes in hyperfiltration experiments as a result of concentration polarisation
R. Gröpl and W. Pusch
8(1970)277-292

Relation between salt rejection rho and reflection coefficient sigma of asymmetric cellulose acetate membranes
W. Pusch and R. Riley
14(1974)389-393

Transport coefficients of asymmetric cellulose acetate membranes
W. Pusch 16(1975)65-83

The formation mechanism of asymmetric membranes
H. Strathmann, K. Kock, P. Amar and R.W. Baker 16(1975)179-203

The formation mechanism of phase inversion membranes
H. Strathmann and K. Kock
21(1977)241-255

On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes
L. Broens, D.M. Koenhen and C.A. Smolders 22(1977)205-219

Asymmetric membrane structures as a result of phase separation phenomena
L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
32(1980)33-45

Morphology of aromatic polyamide type asymmetric reverse osmosis membranes
Chen Jiayan, Bi Shuchun, Zhang Xingda and Zheng Lingying
34(1980)97-112

The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes
G. Jonsson 34(1980)141-157

Development of a new asymmetric alloy membrane for water desalination
P. Aptel and I. Cabasso 36(1981)25-37

Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone
C. Friedrich, A. Driancourt, C. Noël and L. Monnerie 36(1981)39-62

Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application
F. Vigo, G. Capannelli, C. Uliana and S. Munari 36(1981)63-73

Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes
J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr. 37(1981)307-311

Transport coefficients of asymmetric and composite membranes
J.-Y. Chen, M. Kurihara and W. Pusch 46(1983)379-388

Asymmetric behavior of membranes in pressure driven processes
V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
46(1983)447-454

Asymmetric membrane formation. Is the evaporation step necessary?
D. Sambrailo and B. Kunst
64(1987)321-328

Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
W. Pusch, Y.-L. Yu and L.-Y. Zheng
75(1989)3-14

Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing
C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang
93(1993)273-286

Austenitic stainless steel

Stress corrosion of austenitic stainless steels in chloride environments *(in French)*
S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
3(1967)118-124

Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf
H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin 78(1990)327-341

Application of an austenitic nitrogen-alloyed 6Mo stainless steel for seawater desalination (RO) and waste water treatment
M. Jasner 84(1991)335-348

Clad steel for seawater service
T. Fukuda, T. Fukami, Y. Baba and K. Honma 97(1994)121-129

Automation

A control system for multi-stage flash desalination plants
R. Greffrath and F. Mayinger
31(1979)71-83

The integration of a reverse osmosis installation in the fully automated operation of a rural water supply company
F. Bergmann and B. Schuette
49(1984)203-214

Automatic control system of MSF process (Acsode®)
A. Furuki, K. Hamanaka, M. Tatsumoto and S. Inohara
55(1985)77-89

Manageable automation systems for power and desalination plants
D.M.K. Al-Gobaisi, A.S. Barakzai, M. Abdul Aziz and A. Hassan
92(1993)211-251

Automation of water treatment plants and its application in power and desalination plants
E.A. Al-Sum, A. Sattar and M. Abdul Aziz 92(1993)309-321

Conceptual specification for improved automation and total process care in large-scale desalination plants of the future
D.M.K. Al-Gobaisi 95(1994)287-297

Towards improved automation for desalination processes. Part I: Advanced control
D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani 97(1994)469-506

Towards improved automation for desalination processes. Part II: Intelligent control
G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz 97(1994)507-528

Axial velocity

Effect of high axial velocity on performance of cellulose acetate hyperfiltration membranes
J.D. Sheppard and D.G. Thomas
8(1970)1-12

Azobenzene

Concentration by UF of hazardous effluents extracted into emulsions from water solutions; examples with aniline and azobenzene
M. Nyström 81(1991)117-127

Back pressure

Available electricity loss for low grade heat
M. Schaal 40(1982)77-85

Feasibility of installing back pressure turbine at Umm Al Nar East station
A.M. Al-Baghdadi 93(1993)147-158

Back pressure turbines

On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants
R. Rautenbach and E. Ghafour
31(1979)521-532

Back-diffusion technique

Applications of neutron back-diffusion technique for wall thickness and scale measurements at desalination or chemical plants
S. Abdul-Majid 94(1993)101-107

Back-scattering method

Measurement of localized metal removal in pipes by gamma-ray back scattering method
S. Abdul-Majid and U. Dawood
75(1989)185-198

Backflush

Filter backwash water recycling using crossflow microfiltration
S. Vigneswaran, S. Boonthanon and H. Prasanthi 106(1996)31-38

Bacteria growth

In-plant microfouling in desalination
H. Winters and I.R. Isquith
30(1979)387-399

Advance in water quality monitoring and the use of firefly luciferine/luciferase/ATP bioassay
N. Malley and D.L. Henry
39(1981)521-528

Biotechnical applications of a pleated crossflow microfiltration module
G. B. Tanny, D. Hauk and U. Merin
41(1982)299-312

Reverse osmosis desalination plant, RA's Abu Jarjur, State of Bahrain — Two years operational experience for the 46,000 m^3/day RO plant
M. Al-Arrayedh, B. Ericsson, M. Amin Saad and H. Yoshioka
65(1987)197-230

New chloramine process to control aftergrowth and biofouling in Permasep® B-10 RO surface seawater plants
L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters 74(1989)51-67

Influence of covalent attachment of low molecular weight substances on the rejection and adsorption properties of crystalline proteinaceous ultrafiltration membranes
S. Küpcü, M. Sára and U.B. Sleytr 90(1993)65-76

Bacterial endotoxins

A membrane for removing endotoxins from aqueous solutions
N.A. Karamian and P.F. Waters 17(1975)329-338

Ball cleaning systems

Energy consumption and operational aspects of on load ball cleaning systems
K. Eimer 38(1981)201

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Barge-mounted plants

Pre-packaged barge mounted desalting modules
R.W. Durante 19(1976)555-571

MEDA: A new thermal concept for desalting plants
G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal 38(1981)147

Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant
B. Ohlemann and D.K. Emmermann 45(1983)39-47

Barite seed material

The growth of gypsum crystals on barite and calcite
J.S. Gill and G.H. Nancollas 29(1979)247-254

Barium sulfate seeding process

Evaluation of the calcium diminution in the circulated brine of a BSS-MSF plant
K. R. Fröhner 16(1975)157-167

An advanced seeding process in saline water conversion
K.R. Fröhner and H. Panahandeh 16(1975)261-269

The barium sulfate seeding process
F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh 21(1977)59-70

Belgard EVN

Ecotoxicology of Belgard EV®
F. Korte 30(1979)411-424

The use of acid and additive. Practical experiences in a multistage flash plant
J. Stewart, R. Bom and M.A. Finan 31(1979)299-307

Operating experience of a large multistage flash evaporator in Sultanate of Oman
S. Chalchal 31(1979)333-340

Letter to the Editor
D. G. Addenbrook 41(1982)337-337

Short-term low as well as high temperature operation of an MSF plant using Belgard EVN as a scale control additive
F. H. Butt and A. H. Bou-Hassan 42(1982)79-86

An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV
J. Reverter, M. Ribeaud and M.P. Savage 47(1983)17

Evaluation of various additives at Jubail Phase I during reliability trials
N. Nada 51(1984)137-148

A 700-day experiment with Belgard EV-2000 as anti-scale agent in MSF distillers
A. M. Shams El Din 69(1988)147-160

Physico-chemical studies on BELGARD EV and BELGARD EV2000 solutions. Part I: Their densities and viscosities at various dilutions and temperatures
A.M. Shams El Din, A.A. Hammoud and R.A. Arain 103(1995)199-209

Physico-chemical studies on BELGARD EV and BELGARD EV 2000 solutions. Part II. Potentiometric and conductometric acid-base titrations
A.M. Shams El Din and R.A. Mohammed 107(1996)277-290

Bicarbonate

A preliminary technical and economic investigation of sea water demineralization by ion-exchange for calcium and bicarbonate ions and their subsequent removal by thermal decomposition
J.P. Ranck 6(1969)75-85

The determination of carbonate-bicarbonate ratios and total alkalinity in treated sea water
W.A. Stuart and A.R. Lister 8(1970)69-72

On the thermal stability of the HCO_3^- and the CO_3^{2-} ions in aqueous solutions
A.M. Shams El Din and R.A. Mohammed 69(1988)241-250

Bilayer membranes

Salt rejection and flux in reverse osmosis with compactible membranes
W.C.M. Henkens and J.A.M. Smit 28(1979)65-85

Characterization of electrodialysis membranes by chronopotentiometry
R. Audinos and G. Pichelin 68(1988)251-264

Bioadhesion

Interfacial phenomena — Bioadhesion and biocompatibility
K. Larsson 35(1980)105-114

Biocatalysis

Biocatalysis by membrane-attached enzymes and whole microbial cells
K. Venkatsubramanian 35(1980)353-363

Biochemical industry

Some examples of the use of crossflow filtration in the downstream processing in a biochemical industry
A. Eriksson 53(1985)259-263

Biocides

A screening study of 12 biocides for potential use with cellulose acetate reverse osmosis membranes
L.H. Rowley 88(1992)71-83

Eleven biocides are investigated for microbial efficacy and membrane compatibility to use at the Yuma Desalting Plant
L.H. Rowley 97(1994)35-43

Decision making strategy for handling biocides. Experience at Yuma Desalting Plant (Yuma, AZ, USA)
E.M. Abart 97(1994)437-441

Biofilm formation on stainless steels in Arabian Gulf water
A.M. Shams El Din, T.M.H. Saber and A.A. Hammoud 107(1996)251-264

Biofouling

Control of biological fouling in seawater reverse osmosis desalination
H. Winters, I. Isquith, W.A. Arthur and A. Mindler 47(1983)233-237

Measurements and control related to corrosion and scale in water desalination installations
C.F. Schrieber 59(1986)425-444

Pre- and post-treatment at the RO plant at Ra's Abu Jarjur, Bahrain
M. Al-Arrayedhy 63(1987)81-94

The significance of colour changes in some reverse osmosis permeators
N.R.G. Walton 68(1988)29-33

Desalination of non-chlorinated surface seawater using TFC^{R} membrane elements
W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham 70(1988)47-64

Biofouling on membranes — A microbiological approach
H.-C. Flemming and G. Schaule 70(1988)95-119

New chloramine process to control aftergrowth and biofouling in Permasep^{R} B-10 RO surface seawater plants
L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters 74(1989)51-67

Biological fouling and control at Ras Abu Jarjur RO Plant - A new approach
S.R. Ahmed, M.S. Alansari and T. Kannari 74(1989)69-84

A predictive model to find the optimum chlorine treatment scenario for biofouling control
B.A. Al-Hoti 74(1989)227-241

Bacteria and membranes: Ending a bad relationship
H.F. Ridgway 83(1991)53

A screening study of 12 biocides for potential use with cellulose acetate reverse osmosis membranes
L.H. Rowley 88(1992)71-83

Biofouling prevention in RO polymeric membrane systems
M.A. Saad 88(1992)85-105

Biofouing of PVD-1 reverse osmosis elements in the water treatment plant of the City of Dunedin, Florida
R.P. Carnahan, L. Bolin and W. Suratt 102(1995)235-244

Failure evaluation of desalination plants — Some case studies
A.U. Malik, T.L. Prakash and I. Andijani 105(1996)283-295

Biogas

A comparison of two commercial membranes used for biogas upgrading
M. Röhr and R. Wimmerstedt 77(1990)331-345

Biological

Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system
K. Ishiguro, K. Imai and S. Sawada 98(1994)119-126

Biology

An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon
S. Iwai, H. Ohmori and T. Tanaka 23(1977)29-36, Err. 25(1978)215

Reuse of drainage from an office building
S. Iwai, T. Kitao, H. Ohmori and K. Inujima 23(1977)171-181, Err. 25(1978)215

Efficiency of synthetic membranes in comparison with biological membranes
W. Pusch 62(1987)5-18

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

The significance of colour changes in some reverse osmosis permeators
N.R.G. Walton 68(1988)29-33

Biofouling on membranes — A microbiological approach
H.-C. Flemming and G. Schaule 70(1988)95-119

Membrane separation in biological sewage treatment processes
D. Grabska-Winnicka and T.Winnicki 83(1991)243

Biomembrane wastewater treatment by activated sludge method
M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny 107(1996)83-95

Bioluminescence assay

Advance in water quality monitoring and the use of firefly luciferine/luciferase/ATP bioassay
N. Malley and D.L. Henry 39(1981)521-528

Bioreactor

Integrated waste water treatment by coupled bioreactor and membrane system
A. Vaid, C. Kopp, W. Johnson and A.G. Fane 83(1991)137-143

Waste water treatment by a combination of bioreactor and nanofiltration
R. Rautenbach and R. Mellis 95(1994)171-188

Biotechnology

Membrane technology and biotechnology
A.S. Michaels 35(1980)329-351

Membranes in biotechnology: State of the art
A.S. Michaels and S.L. Matson 53(1985)231-258

Membrane filtration as a tool in biotechnical down-stream processing
O.J. Olsen 62(1987)329-339

Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions
G. Hamer, T. Egli and N. Al-Awadhi 72(1989)31-65

Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing
C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang 93(1993)273-286

Biphase turbine

Waste heat powered reverse osmosis plants
R.A. Tidball and R. Kadaj
39(1981)137-145

Bipolar membranes

Development of bipolar membranes
B. Bauer, F.J. Gerner and H. Strathmann 68(1988)279-292

Theoretical and practical aspects of preparing bipolar membranes
H. Strathmann, H.-J. Rapp, B. Bauer and C.M. Bell 90(1993)303-323

Current-voltage curve of a bipolar membrane at high current density
T. Aritomi, T. van den Boomgaard and H. Strathmann 104(1996)13-18

The characteristics of citric acid separation using electrodialysis with bipolar membranes
S. Novalic, J. Okwor and K.D. Kulbe 105(1996)277-282

Development of electrodialysis with bipolar membrane for the treatment of concentrated nitrate effluents
S. Graillon, F. Persin, G. Pourcelly and C. Gavach 107(1996)159-169

Birefringence

Influence of some processing variables on the properties of cellulose acetate membranes. I. Ultimate properties and birefringence
E.A. Meinecke and D.V. Mehta 10(1972)341-352

Bleach effluents

Ultrafiltration of bleach effluents as an example of waste-water treatment by ultrafiltration
R.F. Madsen and W.K. Nielsen 24(1978)141-154

Selection of membranes for treatment of bleaching effluents
P. Zadorecki 62(1987)137-147

Optimal removal of chlorolignin by ultrafiltration achieved by pH control
M. Nyström and M. Lindström 70(1988)145-156

Ultrafiltration of bleach effluents in cellulose production
M.D. Afonso and M.N. De Pinho 79(1990)115-124

Boiler cleaning

Electrochemical monitoring of the process of boiler cleaning
A.M. Shams El Din and A.M.K. Tag El Din 75(1989)171-184

Boiler feed

Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light
H. Sliger and R. Quinn 23(1977)37-47

Boiler feedwater

The production of boiler feedwater from field formation water in enhanced oil recovery (EOR) systems
K. Wangnick 56(1985)143-160

Boiler turbine generator

Fuel allocation in dual-purpose plants
M.A.K. Al-Sofi and M.M. Srouji 100(1995)65-70

Boiling mechanism

Boiling of natural sea water in falling film evaporators
V.C. van der Mast, S.M. Read and L.A. Bromley 18(1976)71-94, Err. 18(1976)217

Peculiarities of boiling seawater in desalination plants
V.N. Slesarenko and V.V. Slesarenko 108(1996)105-109

Boric acid

Boron rejection by cellulose acetate reverse osmosis membranes
F.M. Graber, H.K. Lonsdale, C.E. Milstead and B.P. Cross 7(1970)249-258

Solubility of boric acid in aqueous solutions of sulfate salts
G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re 89(1992)185-202

Solubility of boric acid in aqueous solutions of chloride salts
G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re 91(1993)21-33

Boundary layer

Reverse osmosis desalination in tubular membrane duct
S. Srinivasan and C. Tien 3(1967)5-16

Reverse osmosis in multicomponent systems
S. Srinivasan and C.Tien 5(1968)139-156

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCI and HCI solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons
C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele 95(1994)91-113

Thickness and concentration profile of the boundary layer in electrodialysis
M. Law, T. Wen and G.S. Solt 109(1997)95-103

Box-type orifice

Development of flashing flow model for box type orifice
M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori 65(1987)57-62

Brackish desalination

The West Basin Desalter Project: A viable alternative
R.W. Atwater, L. Palmquist and J. Onkka 103(1995)117-125

The Frances Desalter: A key to water independence on the Irvine Ranch
W.R. Everest and J.T. Morris 103(1995)127-132

Pilot testing of reverse osmosis for salinity and organics control in a coastal supply source
F.E. Sanders and J.C. Lozier 103(1995)133-145

Early Action Plan — San Luis Rey Basin desalting facility, City of Oceanside, California
S.E. Szymborski 103(1995)147-153

Reverse osmosis and activated alumina water treatment plant for the California State prisons located near Blythe
D.R. Lee, J.M. Hargreaves, L. Badertscher, L. Rein and F. Kassir 103(1995)155-161

Polarization phenomena in integrated reverse osmosis and membrane distillation for seawater desalination and waste water treatment
V. Calabro and E. Drioli
108(1996)81-82

Brackish water

Metabolic effects of drinking brackish water
G.M. Berlyne and M. Morag
10(1972)215-219

Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: Theoretical calculation of the osmotic coefficient
C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
10(1972)263-272

Total desalination of brackish water
R. Rautenbach and K.H. Henne
30(1979)581

Seawater vs. brackish water desalting: Technology, operating problems and overall economics
P. Glueckstern and Y. Kantor
44(1983)51-60

Laboratory investigation on electrodialytic desalination of brackish water
G. Wisniewska, B. Cieploch and T. Winnicki 46(1983)275-281

RO desalting of brackish water oversaturated with CaSO4
M. Wilf and J. Ricklis
47(1983)209-220

Optimisation of membrane module design for brackish water desalination
D.E. Wiley, C.J.D. Fell and A.G. Fane
52(1985)249-265

Bahrain's fresh groundwater situation and the investigations into using Bahrain's brackish water resources as a feedwater for the reverse osmosis desalination programme
R.P. Birch, M. Al-Arrayedh and B. Hallmans 55(1985)397-427

Desalination of high salinity brackish water. Low pressure reverse osmosis
P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf 58(1986)55-67

Operational experience of reverse osmosis plants for drinking water in Indian villages
S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani 65(1987)361-372

Experimental studies on pretreatment process of brackish water using electrocoagulation (EC) method
Wang Sanfan and Wang Qinlai
66(1987)353-364

A hardy, high-yield solar distiller of brackish water
R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff 67(1987)43-52

Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert
M. R. Adiga, S. K. Adhikary, P. K. Narayanan, W. P. Harkare, S. D. Gomkale and K. P. Govindan
67(1987)59-66

Water and effluent water treatment using reverse osmosis
R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani 67(1987)507-521

Defluoridation during desalination of brackish water by electrodialysis
S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan
71(1989)301-312

Future for desalination by reverse osmosis
M.A. Jawad 72(1989)23-28

Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait
A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
75(1989)341-361

Disposal of concentrate from brackish water desalting plants by use of deep injection wells
A. Muniz and S.T. Skehan
78(1990)41-47

Disposal of concentrates from brackish water desalting plants by means of evaporation technology
L. Awerbuch and M.C. Weekes
78(1990)71-76

Studies on economic property of pretreatment process of brackish water using electrocoagulation (EC) method
S. Wang 82(1991)365-373

Desalination of brackish groundwater for a prairie community using electrodialysis reversal
R.C. Harries, D. Elyanow, D.N. Heshka and K.L. Fischer
84(1991)109-121

Desalination of brackish water of higher salinity by electrodialysis
S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
84(1991)189-200

Effect of magnesium hydroxide (or hydrated MgO) formed under alkaline conditions on brackish water pretreatment for reverve osmosis
V. Mavrov, I. Dobrevsky, B. Bonev and N. Petkov 85(1992)335-344

Development of a reliable low-cost reverse osmosis desalination unit for remote communities
R. Robinson, G. Ho and K. Mathew
86(1992)9-26

Desalting and ground water management in the San Joaquin Valley, California
B.E. Smith 87(1992)151-174

Case study: Martin County, Florida. "A utility's experience developing a new reverse osmosis treatment system"
G.A. Miller and R.S. Pontek
87(1992)249-265

Membrane material for brackish water application for utilities — An evalution
L. Raghuraman 91(1993)155-162

The development of a new electrodialysis system for brackish water
T. Hamano, P.B. Chebi, L. Gerdes and T.D. Wolfe 96(1994)23-31

Solar photovoltaic desalination of brackish water in remote areas by electrodualysis
N. Ishimaru 98(1994)485-493

Brakish water RO desalination plant in the Gaza Strip
V. Frenkel and T. Gourgi
101(1995)47 -50

Optimized brackish water desalination plants with minimum impact on the environment
P. Glueckstern and M. Priel
108(1996)19-26

Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination
M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal 108(1996)83-89

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)67-82

Alicante University, closed water cycle, reverse osmosis and water treatment plants
D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter 109(1997)315-321

Brackish water/Reverse Osmosis

Operation and maintenance of reverse osmosis water desalination plant of the Kuwait Oil Company
Z. M. Shallal 63(1987)193-208

Graphic evolution of the 24,000 hours (3 years) operating data of a RO brackish water desalination plant, in Las Palmas, Canary Islands, Spain
E.R. Saavedra 76(1989)15-26

Design of compact, containerized desalination plants
B. Mace 76(1989)53-60

Reclaiming reverse osmosis blowdown with electrodialysis reversal
E.R. Reahl 78(1990)77-89

Development and experience with new FILMTEC reverse osmosis membrane elements for water treatment
J.A. Redondo 108(1996)59-66

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 2: Membrane autopsy
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)83-94

Brewing water production

Nitrate removal by electrodialysis for brewing water
K. Kneifel, G. Lührs and H. Wagner 68(1988)203-209

Brine concentration

Utilization of the waste concentrated seawater in the desalination plants
T. Kawahara and K. Suzuki 38(1981)499-507

Operation of a horizontal tube brine concentrator
J. Weinberg and Y. Rotstein 40(1982)159-168

Production of electrical power from concentrated brines
N. Nadav and A. Ophir 40(1982)197-211

Utilisation of hydraulic coupling for brine recirculation pumps
R. El-Assar and M. Lenhard 44(1983)91-97

Design equations for a new set up of sluice gates to stabilize inter-scale brine flow
M. M. Hilal and M. A. Marwan 55(1985)139-144

On the concentration of RO-brines by seeded horizontal tube falling film evaporation (HTFE)
R. Rautenbach and J. Gebel 76(1989)107-119

Crystallization of calcium sulfate on reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 79(1990)47-63

Diluted brine concentration process using membrane pervaporation technique: Laboratory scale studies
Jin Sheng and M.S. Lefebvre 91(1993)253-263

Brine discharge

Prediction of the diffusion of discharged brine by a simulation analytical method
A. Wada, N. Katano and T. Goto 22(1977)91-100

Problems on sea water intake and discharge facilities in coastal region
S. Iso 22(1977)159-168

Pollution problems in a distillation process
T. Goto and T. Hakuta 23(1977)245-253

Total desalination of brackish water
R. Rautenbach and K.H. Henne 30(1979)581

Hydraulic turbine energy recovery — RO system
R. Singh and S.V. Cabibbo 32(1980)281-296

Energy recovery and pumping for 70-bar seawater osmosis *(in French)*
L. Goulvestre and C. Lepert 32(1980)297-302

Optimal cooling towers management for zero discharge
O. E. Natale 44(1983)167-176

Ocean brine disposal
J.V. Del Bene, G. Jirka and J. Largier 97(1994)365-372

The lethal effect of hypertonic solutions and avoidance of marine organisms in relation to the discharged brine from a desalination plant
S. Iso, S. Suizu and A. Maejima 97(1994)389-399

Brine disposal

Application of solar energy to the solution of some problems of electrodialysis
R. Matz and E.M. Feist 2(1967)116-124

Development of a eutectic freezing process for brine disposal
G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson 15(1974)25-38

High recovery reverse osmosis
B.M. Watson 78(1990)91-97

Environmental impact of waste brine disposal of desalination plants, Red Sea, Egypt
B. Mabrook 97(1994)453-465

Optimized brackish water desalination plants with minimum impact on the environment
P. Glueckstern and M. Priel 108(1996)19-26

Brine distribution

Large scale diesel driven vapor compression units
R. Rautenbach and B. Arzt 38(1981)75-84

Brine flashing

A low temperature model for equilibration rates in flashing-flow and its design implications
A. Porteous 6(1969)337-347

A new distillation procedure for seawater desalination based on the regeneration principle *(in German)*
K.-H. Steil 45(1983)303-313

Brine heater

Mineralogy of scales in the brine heater tubes
Y.I.El-Akeel and H.I. Amer
23(1977)255-262

A general tool for a better use of design or verification of mathematical models
E. Ghiazza and F. Giovani
105(1996)51-56

Brine recycling

Leakage of brine from solar evaporation ponds
S. Pancharatnam 11(1972)303-313

The exergetic efficiency of MSF process and the conditions of desalination by waste heat
Shichang Wang 44(1983)39-49

An evaluation of brine recycling and wastewater reclamation by R/O and vapor compression
N. Hasbani 56(1985)37-46

Brine solutions

Studies, testing, and development of a line of brine recirculating pumps for sea water desalinization installations
A. Le Grand, J. Gatignol and J.-F. Lapray 39(1981)351-361

Automated continuous monitoring of sulphate contents in brines
F. Sigon 47(1983)71-80

The treatment and disposal of waste brine solutions
C.A. Buckley, A.E. Simpson, C.A. Kerr and C.F. Schutte
67(1987)431-438

Brine temperature

Field experiences on large MSF desalination plants designed to operate with two different top brine temperatures
A. Massarani 66(1987)43-57

Brines

Deuterium enriched brine as a by-product from desalination plants
A. Valfells 19(1976)55-64

Corrosion measurement and assessment in acid dosed desalination plants
K. Harding and D.A. Bridle
28(1979)89-108

Analysis of the effect of brine retention time on the scaling potential
S. Steinberg and D. Hasson
31(1979)267-277

Magnesium oxide production from concentrated brines
D. Barba, V. Brandani, G. Di Giacomo and P.U. Foscolo
33(1980)241-250

Utilization of the waste concentrated seawater in the desalination plants
T. Kawahara and K. Suzuki
38(1981)499-507

Techno-economic feasibility of extracting minerals from desalination brines
I.S. Al-Mutaz and K.M. Wagialla
69(1988)297-307

A combined RO/freezing system to reduce inland rejected brine
A.A. Madani and S.E. Aly
75(1989)241-258

The Hydraulic TurboCharger™ for interstage feed pressure boosting. Impact on membrane performance, permeate quality, and feed pump energy consumption
E. Oklejas, Jr. 88(1992)289-300

Bromine formation

Corrosion problems caused by bromine formation in MSF desalination plants
J.W. Oldfield and B. Todd
38(1981)233-245

Corrosion problems caused by bromine formation in additive dosed MSF desalination plants
W.S.W. Lee, J.-W. Oldfield and B. Todd 44(1983)209-221

Bromomethane

Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions
W.W. Carey, N.A. Klausutis and A.J. Barduhn 1(1966)342-358

Brugnatellite

Effect of iron and copper during scale suppression by threshold compounds
J. Block, B.M. Watson, L.A. Burkholder and B. Albano
15(1974)279-286

Bubble growth

Direct contact heat transfer with change of phase: bubble growth in three-phase systems
S. Sideman and J. Isenberg
2(1967)207-214

Study of the mechanism of flashing flow by experiment and theoretical analysis
R.I. Hawes and D.C. Leslie
2(1967)329-336

Bubble motion/growth

Numerical predictions of evaporative behaviors of horizontal stream inside a multi-stage-flash distillator
K.W. Seul and S.Y. Lee
79(1990)13-35

Effect of liquid level on flow behaviors inside a multi-stage flash evaporator — A numerical prediction
K.W. Seul and S.Y. Lee
85(1992)161-177

Bubble nucleation

Nucleation in the flash boiling of sea water
W.T. Hanbury and W. McCartney
14(1974)217-228

Some experiments on flash evaporation enhancement by electrolytically generated bubbles
N. Lior and E. Nishiyama
100(1995)71-76

Bubble-cleaning electrodialyzer

Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale
O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike 22(1977)515-524

Buoyancy

A buoyancy-dominated desalination unit
C.A. Hieber 15(1974)59-91

Buoyancy term

Vacuum stripping of butane from water in a packed column
J.-E. Bajolle, P.A. Rice and A.J. Barduhn 9(1971)351-366

Natural convection effect in reverse osmosis
S. Srinivasan and C. Tien
10(1972)273-286

Thermodynamic properties of normal butane at refrigeration temperatures
R.T. Kurnik and A.J. Barduhn
26(1978)211-283

Butane

Assessment of crystalliser designs for a butane freeze desalination process
M. Landau and A. Martindale
3(1967)318-329

Hydrate formation in *i*-butane-*n*-butane or a butene isomer water system at a given temperature
T. Uchida and I. Hayano
3(1967)373-377

Hydrates of iso- and normal butane and their mixtures
O.S. Rouher and A.J. Barduhn
6(1969)57-73

Evaporation of butane drops in brine
H.C. Simpson, G.C. Beggs and M. Nazir 15(1974)11-23

Ice crystallization developments for the butane direct-contact process
H.F. Wiegandt, A. Madani and P. Harriott 67(1987)107-126

Butyl acetate

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

C-axis growth rate

The C-axis growth rate of ice crystals
H.C. Simpson, G.C. Beggs, J. Nakamura and A. Baxter
18(1976)219-230

Cake forming

The unsteady-state modelling of cross-flow microfiltration
J. W. Hunt, C. J. Brouckaert, J. D. Raal, K. Treffry-Goatley and C. A. Buckley 64(1987)431-442

Predicted performance profiles along a long-tube cross-flow microfiltration system
V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal
71(1989)247-264

Calcite crystal

Calcite crystal growth inhibition by phosphonates
M.M. Reddy and G.H. Nancollas
12(1973)61-73, Err. 13(1973)104

The growth of gypsum crystals on barite and calcite
J.S. Gill and G.H. Nancollas
29(1979)247-254

Calcium

Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium
L.H. Shaffer, R.A. Knight and D.A. Smith 2(1967)125-129

Calcium removal from sea water by fixed-bed ion exchange
G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen 4(1968)158-166

Calcium carbonate scale deposition on heat transfer surfaces
D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
5(1968)107-119

A preliminary technical and economic investigation of sea water demineralization by ion-exchange for calcium and bicarbonate ions and their subsequent removal by thermal decomposition
J.P. Ranck 6(1969)75-85

Dissociation constants of certain scale forming salts
O.I. Martynova, L.G. Vasina and S.A. Pozdniakova 15(1974)259-265

Evaluation of the calcium diminution in the circulated brine of a BSS-MSF plant
K. R. Fröhner 16(1975)157-167

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with calcium, magnesium and ferrous ions at various temperatures
M. Iovchev 52(1985)285-293

Uptake of calcium and magnesium from the Arabian Gulf water on plastic and glass surfaces
A. M. Shams El Din and R. A. Mohammed 61(1987)245-248

Recovery of lignosulphonate from a calcium bisulphite pulp mill by ultrafiltration
F.G. Neytzell-de Wilde
67(1987)495-505

Calcium carbonate

Alkaline scale formation in boiling sea water brines
R. Dooly and J. Glater 11(1972)1-16

Precipitation of calcium carbonate on reverse osmosis membranes
E. Mitsoyannis and G.D. Saravacos
21(1977)235-240

The threshold scale inhibition phenomenon
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
31(1979)257-266

Morphology of inhibitor-treated $CaCO_3$ precipitate
G. Wilken 33(1980)201-210

Corrosion control of feeders carrying potable water from desalination of sea water. Case of the Yanbu Medina water supply system (Saudi Arabia)
P. Leroy 44(1983)317-324

Continuous flow precipitation
D. Hasson and S. Steinberg
47(1983)129-148

Calcium carbonate scale formation and prevention in a flow-through system at various temperatures
E. Dalas and P.G. Koutsoukos
78(1990)403-416

Effect of some amino acids on the rate of dissolution of calcite crystals in aqueous systems
S.K. Hamdona, S.M. Hamza and A.H. Mangood 101(1995)263-267

Calcium chloride

Enthalpy of dilution of aqueous $CaCl_2$ solutions at 308.15 K
G. Del Re, F. Fantauzzi, G. Di Giacomo and V. Mucciante
107(1996)199-202

Calcium sulfate

Polymers that inhibit the deposition of calcium sulphate
D.H. Solomon and P.F. Rolfe
1(1966)260-266

Polymers that inhibit the deposition of calcium sulphate: some interesting conductance observations
P.F. Rolfe 1(1966)359-366

Calcium sulphate scale deposition in sea water evaporators
H.C. Simpson and M. Hutchinson
2(1967)308-324

Scale prevention by addition of polyelectrolytes
B.R. Smith 3(1967)263-268

Operating experiences with mobile distillation plants, with particular reference to the avoidance of calcium sulphate scale
H.M. Peacock 3(1967)280-294

Ion-exchange pretreatment for sea water desalination plants
G.K. Kunz 3(1967)363-372

The solubility of calcium sulphate in sodium chloride and sea salt solutions
E. Furby, E. Glueckauf and L.A. McDonald 4(1968)264-276

Increased solubility of calcium sulphate in sea water containing hydrochloric acid
O. Flint 4(1968)328-335

Scale control by polyacrylates: Relation to crystallization inhibition
B.R. Smith and F. Sweett 9(1971)277-283

Calcium sulphate scaling in falling film evaporators
T.D. Hodgson, M.N. Elliot and T.W.J. Jordan 14(1974)77-91

Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation
J. Glater, K.S. Murdia and R. Dooly 14(1974)197-207

Calcium sulfate solubility in brackish water concentrates and applications to reverse osmosis processes: Polyphosphate additives
L.B. Yeatts, P.M. Lantz and W.L. Marshall 15(1974)177-192

Precipitation of calcium sulfate from sea water at high temperatures
A. E. Austin, J. F. Miller, N. A. Richard and J. F. Kircher 16(1975)331-334

Chemical additives for calcium sulfate scale control
A. E. Austin, J. F. Miller, D. A. Vaughan and J. F. Kircher 16(1975)345-357

Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure

S. Sarig, F. Kahana and R. Leshem 17(1975)215-229

Chemical descaling of acid dosed desalination plants
K. Harding, D.A. Bridle and F. Thorne 27(1978)273-282

The growth of gypsum crystals on barite and calcite
J.S. Gill and G.H. Nancollas 29(1979)247-254

Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater
A. Cohen, M. Zangen, M. Koenigsbuch and J. M. E. Goldschmidt 41(1982)215-232

Prevention of calcium sulfate scale deposition by a fluidized bed
J.A.M. Meijer 47(1983)3-15

RO desalting of brackish water oversaturated with CaSO4
M. Wilf and J. Ricklis 47(1983)209-220

Solubilities and supersaturations of calcium sulfate and its hydrates in seawater
J.A.M. Meijer and G.M. van Rosmalen 51(1984)255-305

Inhibition of calcium sulfate depositions by a fluidized bed
J. A. M. Meijer 52(1984)25-42

Scale formation and its effect on the performance of once through MSF plant
H.T. El-Dessouky and T.A. Khalifa 55(1985)199-217

Spontaneous precipitation of calcium sulphate dihydrate in the presence of some metal ions
S.K. Hamdona, R.B. Nessim and S.M. Hamza 94(1993)69-80

Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold
L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev 105(1996)159-163

Calcium-sodium selectivity

An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins
B.A. Bolto and A.S. MacPherson 21(1977)71-82

Capillary filtration

Humic acid as a fouling agent in filtration
M. Nyström, K. Ruohomäki and L. Kaipia 106(1996)79-87

Capillary membrane

Scale-up of membrane fixed enzyme reactors: Modelling and experiments
J.E. Prenosil and T. Hediger 53(1985)265-278

Capillary membranes for separation of dye particles
K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki 105(1996)91-103

Capillary permeators

A brief discussion of numerical simulation for pervaporation in capillary permeator
Zhu Chang-Lue and Shao Xin-Ming 62(1987)283-292

Captive bubble method

Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles
W. Zhang, M. Wahlgren and B. Sivik 72(1989)263-273

Membrane characterization using the contact angle technique. I. Methodology of the captive bubble technique
W. Zhang and B. Hallström 79(1990)1-12

Carbon

Replication electron microscopy of cellulose acetate osmotic membranes
R.L. Riley, U. Merten and J.O. Gardner 1(1966)30-34

Demineralization behavior of carbon and chemically-modified carbon electrodes
G.W. Murphy and J.H. Tucker 1(1966)247-259

Total organic carbon reduction of phenol-containing wastewaters by oxidation techniques
G.A. Al-Enezi, H. Shaban and M.S.E. Abdo 95(1994)1-10

Carbon dioxide

Rejection of carbon dioxide and pH effects in reverse osmosis desalination
C.E. Milstead, A.B. Riedinger and H.K. Lonsdale 9(1971)217-223

The properties of the hydrates of chlorine and carbon dioxide
A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn 16(1975)303-320

Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material
W. Höll and B. Kiehling 48(1983)253-266

Carbon steel

Corrosion of materials in desalination plants
B. Todd 3(1967)106-117

Five years of operating experience of large scale distillation test plant made of carbon steel
H. Tabata and R. Yokoyama 27(1978)3-8

Corrosion considerations in selecting metals for flash chambers
J. W. Oldfield and B. Todd 31(1979)365-383

Operational experience of 2 x 11,500 m^3d MSF seawater desalination plant
S. Khalaf, M. Alarrayedh and A.M. Alawadi 39(1981)219-227

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

Some results of the investigations on corrosion protection of desalination plant equipment
A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko 44(1983)233-239

Carbon-carbon bond formation

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate
E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)115-132

Carbonate

Electrodialytic removal of carbonates from seawater
H. U. Müller and H. Strathmann 47(1983)201-208

On the thermal stability of the $HCO_3^-$and the CO_3^{2-} ions in aqueous solutions
A.M. Shams El Din and R.A. Mohammed 69(1988)241-250

Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations
O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert 71(1989)337-345

Carbonate-bicarbonate ratio

The determination of carbonate-bicarbonate ratios and total alkalinity in treated sea water
W.A. Stuart and A.R. Lister 8(1970)69-72

Carbonic acid

Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations
O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert 71(1989)337-345

Carboxylate ions

A study on reproducibility of cellulose acetate membranes
H.E. Grethlein 12(1973)45-60

Permeability of mono-carboxylate ions across an anion-exchange membrane
R. Dohno, T. Azumi and S. Takashima 16(1975)55-64

Microfiltration of long chain carboxylates: Relationship between rejection and micellization
O. Surel and M.-H. Famelart 95(1994)11-25

Carboxylic acid resins

An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins
B.A. Bolto and A.S. MacPherson 21(1977)71-82

Cation exchange kinetics on carboxylic acid resins in a multicomponent system H—Me^+—Me^{2+}
T. Herrera, Z. Matejka and J. Eliasek 48(1983)161-169

Carboxylic acids

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Carrier-gas process

The carrier-gas process — a new desalination and concentration technology
R. Larson, W. Albers, J. Beckman and S. Freeman 73(1989)119-137

Cartridge filters

The calculation of microfiltration of suspensions in cartridge filters
Y.I. Dytnersky, S.P. Agashichev and Y.K. Romanenko 81(1991)265-272

Cartridge microfilter housing

New solutions for construction of pressure-driven membrane equipment
F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova 108(1996)315-324

Casting

An apparatus for studying the mechanism of membrane formation
U. Rosenthal, J. Nechushtan, A. Kedem, D. Lancet and M.A. Frommer 9(1971)193-200

Improved cellulose acetate membranes for reverse osmosis
P.M. Fahey and H.E. Grethlein 9(1971)297-313

Casting conditions

Performance of some improved porous cellulose acetate membranes for low pressure reverse osmosis desalination
B. Kunst and S. Sourirajan 8(1970)139-152

The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope
G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley 8(1970)369-391

High flux cellulose acetate ultrafiltration membranes
O. Kutowy, W. L. Thayer and S. Sourirajan 26(1978)195-210

Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid)
T. Uragami, M. Fujimoto and M. Sugihara 34(1980)311-323

Adsorption of water on cellulose acetate membrane
Y. Kurokawa 36(1981)285-290

Formation of asymmetric cellulose acetate membranes
H. Bokhorst, F. W. Altena and C. A. Smolders 38(1981)349-360

On the reproducibility of asymmetric cellulose acetate membranes
P. Mosegaard and G. Jonsson 46(1983)313-320

Optimal conditions for obtaining polymeric membranes in binary systems: a numerical analysis
C. Castellari and S. Ottani 49(1984)141-152

Casting equipment

A surface phenomenon occurring during the preparation of cellulose acetate reverse osmosis membranes
R. Matz 12(1973)273-275

Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes
W.L. Thayer, L. Pageau and S. Sourirajan 21(1977)209-219

On the conditions of fabrication of tubular cellulose acetate membranes
M. Matsuda, C. Kamizawa and H. Yoshitome 27(1978)41-50

On the reproducibility of asymmetric cellulose acetate membranes
P. Mosegaard and G. Jonsson 46(1983)313-320

Casting solutions

The mechanism for formation of "skinned" membranes. I. Structure and properties of membranes cast from binary solutions
R. Bloch and M.A. Frommer 7(1970)259-264

The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure
M.A. Frommer, I. Feiner, O. Kedem and R. Bloch 7(1970)393-402

Physicochemical processes during fabrication of cellulose acetate membranes. Standards for performance optimization. I. Dopes containing aqueous solutions of inorganic salts *(in French)*
J.L. Halary, C. Noel and L. Monnerie 13(1973)251-267

Specification of cellulose acetate to be used in semipermeable membranes
M.C. Chan and J.W. McCutchan 17(1975)353-366

The influence of mineral fillers on the membrane properties of high flux asymmetric cellulose acetate reverse osmosis membranes
I. Goossens and A. van Haute 18(1976)203-214

Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions
M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie 21(1977)165-181

Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane
T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani 22(1977)253-262

On the relationship between permselective membranes porosity and evaporation rate of the casting solutions
A. Franceschini, G. Fidilio and G. Actis 26(1978)37-44

On the conditions of fabrication of tubular cellulose acetate membranes
M. Matsuda, C. Kamizawa and H. Yoshitome 27(1978)41-50

Development of a new asymmetric alloy membrane for water desalination
P. Aptel and I. Cabasso 36(1981)25-37

On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis
Y. Ogawa and S. Suzuki 42(1982)57-61

Additives for the preparation of polysulfone-based ultrafiltration membranes, especially for hemodialysis and hemo-osmometer
Xu Xie-quing 48(1983)79-84

Prediction of membrane properties using phase diagrams in the polymer-solvent-precipitant system
Hu Jiajun 62(1987)49-53

Synthesis and evaluation of poly(*m*-phenylene isophthalamide) as a reverse osmosis membrane
S.V. Joshi and A.V. Rao 78(1990)355-362

Catalysts recovery

Desalination and recovery of catalysts by electrodialysis
S. Sridhar 79(1990)233-247

Catalytic wet oxidation

Treatment of wastewater and sludge by a catalytic wet oxidation process
Y. Harada and K. Yamasaki 98(1994)27-39

Treatment of concentrated cyanide wastewater
M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka 98(1994)345-352

Cation exchanger

Desalination by an ion exchange-precipitation-complex process
A.R. Glueck 4(1968)32-37

Characteristics of strong-acid cation exchangers. 1. Optimization of regeneration
C. A. Sauer 51(1984)313-324

Iron removal from tap water by a cation exchanger
E. Korngold 94(1994)243-249

Water recovery from etching effluents for the purpose of rinsing stainless steel
J. Wisniewski and S. Suder 101(1995)245-253

Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India
A.V. Singh, S. Gupta and S.C. Gupta 104(1996)235-238

Cation-exchange kinetics

Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins
Z. Matejka and J. Eliasek 42(1982)315-320

Cation-exchange membranes

Water transport through cation-exchange membranes
N. Lakshminarayanaiah 3(1967)97-105

Reverse osmosis by dynamically formed cation exchanger membranes
J.W. Van Heuven and R.K. Bloebaum 14(1974)229-237

Water softening by diffusion using cation exchange membranes
B.S. Joshi and K.P. Govindan 38(1981)509-516

Edge effects and orientation effects in electrodialysis
Q. Li, Y. Fang and M.E. Green 41(1982)47-55

Simultaneous automatic measurement of salt and water fluxes through a charged membrane
C. Ripoll, M. Labbe, L. Lavielle and E. Selegny 41(1982)289-298

Role of the membrane surface in concentration polarization at ion-exchange membrane
I. Rubinstein, E. Staude and O. Kedem 69(1988)101-114

Preferential transport of nickel and cupric ions through cation exchange membrane in electrodialysis with a complex agent
Tingchia Huang and Jaukai Wang 86(1992)257-271

The electrochemical way of removing the hardness of water
A. Bannoud 93(1993)545-555

Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons
A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach 101(1995)141-153

Chronopotentiometric response of a cation exchange membrane in contact with chromium$^{(III)}$ solutions
M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui 105(1996)219-228

Cation-exchange resins

An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins
B.A. Bolto and A.S. MacPherson 21(1977)71-82

Chemical and physical degradation of some cation-exchange resins used in nitrate recovery from wastewaters
L. Pawlowski, J. Barcicki and T.Z. Winnicki 28(1979)243-252

A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening
D. Barba, V. Brandani and P. U. Foscolo 48(1983)133-146

Cation exchange kinetics on carboxylic acid resins in a multicomponent system
H—Me^{+}—Me^{2+}
T. Herrera, Z. Matejka and J. Eliasek 48(1983)161-169

Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material
W. Höll and B. Kiehling 48(1983)253-266

Caustic extraction, wood pulping

The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping
A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley 67(1987)455-465

Caustic soda

Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane
D. Raucq, G. Pourcelly and C. Gavach 91(1993)163-175

Cellulose diacetate chain hydration

Physicochemical processes occurring during the formation of cellulose diacetate membranes, research of criteria for optimizing membrane performance. II. Influence of cellulose diacetate chain hydration on the effect of heat treatment
J. Vinit, C. Noel and L. Monnerie 15(1974)267-278

Cellulose saccharification

Evaluation of UF and RO in a cellulose saccharification process
I. Ohlson, G. Trägårdh and B. Hahn-Hägerdal 51(1984)93-101

Cellulose triacetate membranes

The effect of heavy metal ions on the oxidation of cellulose triacetate membranes
N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi 96(1994)431-439

Cellulose-ethanol conversion

Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose
B. Hägerdal, M. López-Leiva and B. Mattiasson 35(1980)365-373

Cement concrete

Utilization of cement concrete as an evaporator shell material
Y. Nojiri and K. Fujii 19(1976)45-54

Cement, durability

Durability of cement and concrete in sea water
M. Ben-Yair 3(1967)147-154

Centrifugal pumps

Hyperfiltration in charged membranes: the fixed charge model
E. Hoffer and O. Kedem
2(1967)25-39

Centrifugal pumps for desalination
F. F. Antunes, R. E. Cornman and R. J. Hartkopf 38(1981)109-122

Reverse running centrifugal pumps as hydraulic power recovery turbines for seawater reverse osmosis systems
W. A. Raja and R. W. Piazza
38(1981)123-134

Ceramic membranes

Development of an ethanol/sorbitol process using a ceramic membrane cell recycle bioreactor
U.H. Chun and P.L. Rogers
70(1988)353-361

Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes
R.A. Terpstra, B.C. Bonekamp and H.J. Veringa 70(1988)395-404

Performance and fouling of inorganic tubular microfilters
J.J. Porter and Shuzhong Zhuang
107(1996)203-215

Ceramic tubes

Experimental reverse osmosis apparatus for membranes in the external surface of ceramic tubes
E. Korngold and F. de Körösy
11(1972)125-127

Ceramic ultrafilter

Performance of a ceramic ultrafilter with sea water
K.K. Likhyani and J.K. Beasley
22(1977)345-348

Chabazite

Dynamic data on lead uptake from water by chabazite
M. Pansini and C. Colella
78(1990)287-295

Channel flow

Condensation of steam in a channel flow in the presence of noncondensable gases with surface resistance
A. Tamir and Y. Taitel
8(1970)293-309

Chara

Significance of potassium and chloride membrane currents in mechanisms of salt tolerance in *Chara corallina* and *Chara inflata*
J.I. Kourie 106(1996)431-434

Voltage and pharmacological modification of membrane currents during the action potential in *Chara inflata*
J.I. Kourie 106(1996)435-438

Charge-mosaic membranes

Geometric effects in piezodialysis: through charge-mosaic membranes
L. Dresner 10(1972)47-66

Transport properties of charge-mosaic membranes. I. Theoretical models
J.N. Weinstein, B.J. Bunow and S.R. Caplan 11(1972)341-377

Transport properties of charge-mosaic membranes. II. Experimental studies
J.N. Weinstein, B.M. Misra, D. Kalif and S.R. Caplan 12(1973)1-17

Transport properties of charge-mosaic membranes. III. Piezodialysis
C.R. Gardner, J.N. Weinstein and S.R. Caplan 12(1973)19-33

Development of membranes and resins for piezodialysis
J. Shorr and F.B. Leitz 14(1974)11-20

Piezodialytic transport across charge-mosaic membranes
T. Winnicki, G. Blazejewska and A. Mika-Gibala 32(1980)77-89

Piezodialytic transport across charge-mosaic membranes
G. Blazejewska-Wisniewska and T. Winnicki 38(1981)461-471

Preparation of charge-mosaic membranes by radiation-induced graft copolymerization of PE films with styrene and 4-vinylpyridine. II. Effects of pre-irradiation dosage, atmosphere, storage time and storage temperature of grafting of vinylpyridine onto PE films
Dong Chuanyin 62(1987)275-282

Charged membranes

Hyperfiltration in porous fixed charge membranes
R. Simons and O. Kedem
13(1973)1-16

Silica transport through charged membranes
G. Boari, C. Merli, R. Passino and G. Tiravanti 15(1974)3-10

Ion exclusion from neutral and slightly charged pores
L. Dresner 15(1974)39-57

A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models
R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson 17(1975)313-324

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCl solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Reverse osmosis by composite charged membranes
H. Nomura, M. Seno, H. Takahashi and T. Yamabe 29(1979)239-246

Preparation and properties of a composite charged membrane
D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn
41(1982)249-261

Simultaneous automatic measurement of salt and water fluxes through a charged membrane
C. Ripoll, M. Labbe, L. Lavielle and E. Selegny 41(1982)289-298

Polarization effects at charged membranes
O. Kedem and I. Rubinstein
46(1983)185-189

Transport through charged ultrafiltration membranes
S. Kimura and I. Jitsuhara
46(1983)407-416

Electrolyte exclusion model for hyperfiltration of electrolyte solutions by charged gel membranes
H. G. Spencer 52(1984)1-8

The reuse of reactive dye liquors using charged ultrafiltration membrane technology
A. Erswell, C.J. Brouckaert and C.A. Buckley 70(1988)157-167

Separation of proteins by charged ultrafiltration membranes
S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
70(1988)191-205

Flux and rejection in the ultrafiltration of colloids
R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell 70(1988)251-264

Cheese production

Utilization of the new mineral UF membranes for making semi-hard cheeses
H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut
35(1980)243-258

Use of membranes in the manufacture of hard and semi hard cheeses
D.N. Ryder 53(1985)129-133

Cheese whey

Biotechnical applications of a pleated crossflow microfiltration module
G. B. Tanny, D. Hauk and U. Merin
41(1982)299-312

RO-fractionation membranes
D. Pepper 70(1988)89-93

Chelation

Improved membrane separations by selective chelation of metal ions in aqueous feeds
H.B. Hopfenberg, K.L. Lee and C.P. Wen 24(1978)175-189

Chemical descaling of acid dosed desalination plants
K. Harding, D.A. Bridle and F. Thorne 27(1978)273-282

Chelometric analysis

Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium
L.H. Shaffer, R.A. Knight and D.A. Smith 2(1967)125-129

Chemical additives

Chemical additives for calcium sulfate scale control
A.E. Austin, J.F. Miller, D.A. Vaughan and J.F. Kircher
16(1975)345-357

Inhibition efficiency of scale formation by chemical additives
O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin 74(1989)355-361

Ensuring the safety of additives used in desalination plants to produce potable water: The role of independent approval agencies and comprehensive toxicological and ecotoxical product profiles
J.D. Wilcock and M.A. Finan
97(1994)443-451

Chemical descaling

Chemical descaling of acid dosed desalination plants
K. Harding, D.A. Bridle and F. Thorne 27(1978)273-282

Chemical removal of calcium sulfate scale — Plant experience of Lok On Pai desalter
Ying Kwong Chan and Kwok Kuen Leung 30(1979)359-371

Chemical engineering

Chemical engineering aspects of the reverse osmosis process
K.D.B. Johnson, J.R. Grover and D. Pepper 2(1967)40-55

Chemical industry

Use of pervaporation systems in the chemical industry
G. F. Tusel and H. E. A. Brüschke
53(1985)327-338

Automated design of optimum pipeline in chemical industry
V.V. Kafarov and V.P. Meshalkin
66(1987)119-125

RO for improved products in the food and chemical industries and water treatment
D. Pepper 77(1990)55-71

Chemical treatment

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
A.E. Jaffer 96(1994)71-79

Test result of the intermittent chlorine injection method in Jeddah 1 plant
N. Nada, H. Iwahashi and F. Umemori 96(1994)283-290

Chemicals

Reverse osmosis relevant to India
D.J. Mehta, V.P. Pandya and A.V. Rao 20(1977)403-413

Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams
J. J. Porter and G. A. Goodman
49(1984)185-192

New and developed material and chemicals in desalination technology
M. Morsi Abou El Ela
93(1993)529-536

Chitosan

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

Chloramine process

New chloramine process to control aftergrowth and biofouling in Permasep[R] B-10 RO surface seawater plants
L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters 74(1989)51-67

Chloride

Stress corrosion of austenitic stainless steels in chloride environments *(in French)*
S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
3(1967)118-124

Rapid batch and continuous electroanalysis for the chloride ion
R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey 9(1971)333-350

A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models
R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson 17(1975)313-324

Solubility of boric acid in aqueous solutions of chloride salts
G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
91(1993)21-33

Chloride electrodes

On the measurement of streaming potentials with silver-silver chloride electrodes
K.S. Spiegler 15(1974)135, Err. 16(1975)260

Chloride separation

An experimental study for separation of NaCl from SAS by electrodialysis with ion exchange membranes
Qu Jing-Xu, Qian Yao-Nan and Shen Yan-Zhang 64(1987)329-338

Chloride-sulfate exchange

Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates
L. Liberti, G. Boari and R. Passino 25(1978)123-134

Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges
L. Liberti, G. Boari and R. Passino 26(1978)181-194

Kinetic investigation of the chloride — sulphate exchange on anion-exchange resins
L. Liberti and G. Schmuckler 27(1978)253-260

Chloride-sulphate exchange on anion resins, kinetic investigations. VI. Differential exchange rates in diluted systems
L. Liberti, A. Pinto and R. Passino 29(1979)255-262

An advanced method for sea water chemical treatment in MSFD plants
A. De Maio, G. Odone, E. Palmisano and R. Zannoni 31(1979)321-331

Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins
L. Liberti, R. Passino and D. Petruzzelli 41(1982)199-207

Chloride-sulphate exchange on anion resins. Kinetic investigation. IX Direct, isotopic and reverse exchange
L. Liberti, R. Passino and D. Petruzzelli 48(1983)55-66

Chlorinated hydrocarbons

The rate of formation of the hydrates of F-31 (CH_2ClF) and F-142b (CH_3CClF_2) in a stirred tank reactor
A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern 18(1976)59-69

Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes
C. Dotremont, S. Goethaert and C. Vandecasteele 91(1993)177-186

Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons
C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele 95(1994)91-113

Chlorination

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

A contribution to the problem of trihalomethane formation from the Arabian Gulf water
A.M. Shams El Din, R.A. Arain and A.A. Hammoud 85(1991)13-32

Chlorine

Thermodynamics and composition of chlorine hydrate
D.A. Wilms and A.A. van Haute 12(1973)379-393

Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack
J. C. Watters, E. Klein, M. Fleischman, J. S. Roberts and B. Hall 60(1986)93-110

A predictive model to find the optimum chlorine treatment scenario for biofouling control
B.A. Al-Hoti 74(1989)227-241

The effects of chlorine dioxide on reverse osmosis membranes
W.R. Adams 78(1990)439-453

Chlorine degradation of aromatic polyamides
S. Avlonitis, W.T. Hanbury and T. Hodgkiess 85(1992)321-334

The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I.
M.J. Hurndall, E.P. Jacobs and R.D. Sanderson 86(1992)135-154

Utilization of coal mine brines in the chlorine production process
M. Turek, J. Mrowiec-Bialon and W. Gnot 101(1995)57 -67

An electrolytic chlorination system for pretreatment and post-treatment in desalination systems
D.C. Brandt 102(1995)321-324

Chlorine hydrate

Thermodynamics and composition of chlorine hydrate
D.A. Wilms and A.A. van Haute 12(1973)379-393

The properties of the hydrates of chlorine and carbon dioxide
A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn 16(1975)303-320

Chlorine resistant membranes

Chlorine resistant polysulfone reverse osmosis modules
A. E. Allegrezza, Jr., B. S. Parekh, P. L. Parise, E. J. Swiniarski and J. L. White 64(1987)285-304

New thin-film composite low pressure reverse osmosis membranes and spiral wound modules
I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama 64(1987)387-401

Reverse osmosis TFC magnum elements for chlorinated/dechlorinated feedwater processing
W.G. Light, H.C. Chu and C.N. Tran 64(1987)411-421

New composite charged reverse osmosis membrane
K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto 68(1988)109-119

Chlorine resistance of polypiperazineamide membranes and modules
S.N. Gaeta, E. Petrocchi, E. Negri and E. Drioli 83(1991)383

Removal of chlorine from dilute salt aqueous solution with a flat microporous membrane
B. Yu and Q. Li 90(1993)335-344

Characteristics of a chlorine-resistant reverse osmosis membrane
R. Singh 95(1994)27-37

The search for a chlorine-resistant reverse osmosis membrane
J. Glater, S.-K Hong and M. Elimelech 95(1994)325-345

Application of a chlorine-resistant polyamide RO membrane with a hollow fiber configuration
K. Nita, K. Numata, S. Gotoh and M. Matsui 96(1994)33-41

Chlorodifluoroethane

The rate of formation of the hydrates of F-31 (CH_2ClF) and F-142b (CH_3CClF_2) in a stirred tank reactor
A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern 18(1976)59-69

Chlorodifluoromethane

Thermodynamic properties of F-22($CHClF_2$) hydrate for use in desalting
A.J. Barduhn and W.-C. Lee 25(1978)151-162

Chlorofluoromethane

Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions
W.W. Carey, N.A. Klausutis and A.J. Barduhn 1(1966)342-358

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica 12(1973)239-250

Chlorolignin removal

Optimal removal of chlorolignin by ultrafiltration achieved by pH control
M. Nyström and M. Lindström 70(1988)145-156

Chloromethylation

Research on elimination of chloromethylation in preparation on anion-exchange
Zongqing Li and Jianwu Ling 56(1985)421-430

Chrome oleate

Investigation of water steam drop condensation conditions
L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova 2(1967)337-344

Chromium

Hyperfiltration of surfactants containing solutions from the plating industry
E. Staude, W. Assenmacher and H. Hoffmann 49(1984)321-333

The development of polysulfonamide membrane and its application in treating chromium plating wastewater
Liu Gouxin and Wu Jiangjing 62(1987)239-249

Chronopotentiometric response of a cation exchange membrane in contact with chromium$^{(III)}$ solutions
M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui 105(1996)219-228

Chromium recovery

Chromium(III) salts recovery process from tannery wastewaters
C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini 108(1996)183-191

Quality improvement of recycled chromium in the tanning operation by membrane processes
A. Cassano, E. Drioli, R. Molinari and C. Bertolutti 108(1996)193-203

Chromium removal

Chromium removal from water by ion exchange using zeolite
M. Pansini, C. Colella and M. de' Gennaro 83(1991)145-157

Chronopotentiometry

Characterization of electrodialysis membranes by chronopotentiometry
R. Audinos and G. Pichelin 68(1988)251-264

Chronopotentiometric response of a cation exchange membrane in contact with chromium$^{(III)}$ solutions
M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui 105(1996)219-228

Circular tube nozzle

An experimental study of spray flash evaporation
O. Miyatake, T. Tomimura, Y. Ide and T. Fujii 36(1981)113-128

Circulation

Design features of seawater intake, distribution and outfall systems, applied to the Ruwais Utilities Complex, Abu Dhabi
R. El-Assar, G. Jung and G. Gerrard 45(1983)115-118

Effect of magnetic treatment on Gulf seawater
H. Al-Qahtani 107(1996)75-81

Citric acid

Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from single solute aqueous solution
S. W. Thiel and D. R. Lloyd 46(1983)399-406

The characteristics of citric acid separation using electrodialysis with bipolar membranes
S. Novalic, J. Okwor and K.D. Kulbe 105(1996)277-282

Clad steel

Clad steel for seawater service
T. Fukuda, T. Fukami, Y. Baba and K. Honma 97(1994)121-129

Elements of environmental impact studies on coastal desalination plants
T. Höpner and J. Windelberg 108(1996)11-18

Cleaning

Energy consumption and operational aspects of on load ball cleaning systems
K. Eimer 38(1981)201

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Recycling of detergents after ultrafiltration of cleaning solutions
H. Paul 41(1982)313-325

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

Trace metal fouling and cleaning of seawater RO membranes
G. Peplow and F. Vernon 66(1987)271-284

Membrane cleaning
G. Trägårdh 71(1989)325-335

Improving reverse osmosis performance through periodic cleaning
S.I. Graham, R.L. Reitz and C.E. Hickman 74(1989)113-124

Evaluation of commercial cleaning agents for seawater reverse osmosis membranes
S. Ebrahim and H. El-Dessouky 99(1994)169-188

Clearing agents

Membrane cleaning
G. Trägårdh 71(1989)325-335

Clogging

Detailed investigation of effects of operating parameters of ultrafiltration using laboratory-scale ultrafiltration unit
S. Vigneswaran and Wong Yen Kiat 70(1988)299-316

Close-recycling techniques

Close-recycling of industrial liquid waste
Xu Jing-wen 67(1987)299-326

Cloud point

The investigation of solution thermodynamics for the polysulfone—DMAC—water system
Li Shuguang, Jiang Chengzhang and Zhang Yuanqi 62(1987)79-88

Coagulant treatment

Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination
H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly 66(1987)423-430

Coagulation-filtration

Pretreatment of seawater RO feed by means of coagulation-filtration
H. Tsuge, S. Suda and T. Matsumura 38(1981)425-436

Coal mining

The desalination of coalmine drainage water by reverse osmosis
R.C. Squires, J.A.C. Cowan and F.C. Wood 47(1983)343-350

Utilization of coal mine brines in the chlorine production process
M. Turek, J. Mrowiec-Bialon and W. Gnot 101(1995)57 -67

Selection of the best desalination technology for highly saline drainage water from coal mines in southern Poland
J. Kurbiel, W. Balcerzak, S.M. Rybicki and K. Swist 106(1996)415-418

Nanofiltration in the utilization of coal-mine brines
M. Turek and M. Gonet 108(1996)171-177

Coating materials

Characteristics and performance of new types of ultrafiltration membranes with chemically modified surfaces
F. F. Stengaard 70(1988)207-224

Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes
R.A. Terpstra, B.C. Bonekamp and H.J. Veringa 70(1988)395-404

Operational experience of once through MSF desalination units
A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja 73(1989)327-340

Cogeneration

Integrated production of power and water
M.A.-K. Al-Sofi 76(1989)89-105

Low temperature, multi-effect distillation for cogeneration yielding the most efficient sea water desalination system
A. Ophir 84(1991)85-101

An interactive approach to combine desalting and power plants analysis
B.G. Jabboury and M.A. Darwish 84(1991)106

Economic scheduling of the UAN cogeneration plant: A preliminary optimization study
A.M. El-Nashar and M.S. Khan 85(1991)93-127

Cost allocation of electricity and water in a cogeneration plant
A.M. El-Nashar 85(1992)197-212

Desalination plant integration with cogeneration systems for EOR/commercial/industrial applications
S. Tadros 87(1992)137-147

Hydro-powered reverse osmosis (RO) desalination for co-generation: A Middle East case study
M. Murakami 97(1994)301-311

Electricity and water production in the Emirate of Abu Dhabi and its impact on the environment
A.M. Shams El Din, S. Aziz and B. Makkawi 97(1994)373-388

Multi-flash desalination and cogeneration to solve the water supply problems in southeastern Sicily
E. Cardona, S. Culotta, L. Mangiaracina and R. Terranova 106(1996)121-130

On the feasibility of large vapor-compression distillation units
Y.M. El-Sayed 107(1996)13-27

Cogeneration with the LT-MED desalination process
G. Kronenberg 108(1996)287-294

Cogeneration plants

Cost allocation for electricity and water for the Umm Al Nar West cogeneration plant using the energy accounting method
A.M. El-Nashar 71(1989)57-71

Optimum selection of cogeneration systems for power and desalination
A.M. El-Nashar 71(1989)211-232

Technoeconomics of power/desalting cogeneration plants in Kuwait - A preliminary study
A.A.J. Al-Zubaidi 76(1989)121-154

Selection of optimally matched cogeneration plants
B.A. Kamaluddin, S. Khan and B. Makkawi-Ahmed 93(1993)311-321

Energy requirement of water production in dual-purpose plants
G.P. Maheshwari, M. Al-Ramadhan and M. Al-Abdulhadi 101(1995)133-140

Cogeneration process

Humidification-dehumidification desalination process using waste heat from a gas turbine
H.T.A. El-Dessouky 71(1989)19-33

Cogeneration systems

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Power and water production in cogeneration systems
S.K. Tadros 44(1983)101-102

Relevant methods for planning and optimization of power and water production systems of the Gulf countries
Y. El-Mahgary and E. Tamminen 92(1993)149-170

Short-term operational planning in WED. Part 1: Structure of the cogeneration system
D. Herrmann, A. El-Nashar and A. Aidrous 92(1993)171-183

Short-term operational planning in WED. Part 2: Load dispatch and unit commitment
D. Herrmann, A. El-Nashar and A. Aidrous 92(1993)185-209

Coliphage rejection

Coliphage rejection under ultramembrane filtration
K. Kawamura, K. Nishimura and Y. Magara 106(1996)89-97

Collector

Transient analysis of double-basin solar still integrated with collector
Y.P. Yadav 71(1989)151-164

Colligative properties

Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: Theoretical calculation of the osmotic coefficient
C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco 10(1972)263-272

Colloidal adhesion

Interfacial phenomena — Bioadhesion and biocompatibility
K. Larsson 35(1980)105-114

Colloidal fouling

Colloidal fouling of reverse osmosis membranes
M.T. Brunelle 32(1980)127-135

Artificial particulate fouling of hyperfiltration membranes IV. Dynamic protection from fouling
G. Belfort 34(1980)159-169

Fouling of ultrafiltration membranes: lateral migration and the particle trajectory model
G. Green and G. Belfort 35(1980)129-147

Predicting flux decline of reverse osmosis membranes
J. C. Schippers, J. H. Hanemaayer, C. A. Smolders and A. Kostense 38(1981)339-348

Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer
M. Elimelech, W.H. Chen and J.J. Waypa 95(1994)269-286

Color removal

Treatment of surface water rich in humus — Membrane filtration vs. conventional treatment
B. Ericsson and G. Trägårdh 108(1996)117-128

Column crystallizers

Desalination in pilot scale column crystallizers
C. Bates, R.P. Gladwin and L. McGrath 21(1977)83-97

Dynamic modelling and partial simulation of a pilot scale column crystallizer
N. Akhtar, L. McGrath and P.D. Roberts 28(1979)1-11

Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions
G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath 36(1981)87-97

Combined desalination/power generation See power

Combined power/fresh water/heating energy production

Prorating methods for coupled production of power, fresh water and energy for district heating
B. Kunst and J. Hapke 26(1978)309-317

Combustion

Submerged combustion
P.A. Iyer and Chieh Chu 9(1971)19-31

Comparative analysis

Analytical comparison of the multi-stage flash and long-tube vertical distillation processes
M.J. Burley 2(1967)81-88

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D.K. Emmermann and G.F. Tusel 30(1979)499

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D. K. Emmermann and G. F. Tusel 33(1980)229-239

Comparative analysis of the efficiency of thermal desalination plants
V. Slesarenko and A. Shtim 37(1981)269-277

Process selection guide to seawater desalting
D. R. Finnegan and W. M. Wagner 38(1981)29-48

Advantages of the ejectocompression process in sea water desalination
M. Lucas and S. Hessemans 38(1981)57-63

Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements
L. F. Giannuzzi, O. E. Horn and M. Nakhamkin 39(1981)437-446

Comparative energy requirements and economics of desalting processes based on current and advanced technology
P. Glueckstern 40(1982)63-74

A comparison of desalting processes from an energy point of view
M. Morris 40(1982)237-244

Energy advantages of reverse osmosis in seawater desalination
C.T. Sackinger 40(1982) 271-281

An evaluation of the energy requirements of desalination processes on the basis of the fuel use performance ratio
I. Kamal and G.F. Tusel 40(1982)283-295

Seawater desalting energy requirements as a function of various local conditions
A. C. F. Ammerlaan 40(1982)317-326

Desalination and energy
J. J. Libert 40(1982)401 -406

Comparative study between vapor compression and multi effect boiling desalination systems
M. A. Darwish, K. A. Fathalah and S. E. Aly 45(1983)77-80

Comparative study between conventional and vapor compression multi-effect desalination systems
M.A. Darwish, S.E. Aly and K.A. Fathalah 49(1984)153-167

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady 49(1984)271-292

An economic comparison of 2 x1000 m^3/day desalination plants
H.W. Greig and J.W. Wearmouth 64(1987)17-50

Cost and economic analysis of Doha reverse osmosis plant (Kuwait)
S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah 64(1987)65-82

Energy consumptions and costs of different desalting systems
M. A. Darwish and N. M. Al-Najem 64(1987)83-96

Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants
M.A. Darwish, M. Abdel Jawad and G.S. Aly 78(1990)313-326

A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis
P.Lipp, B. Görge and R. Gimbel 79(1990)203-216

Design and operating comparison of MSF and MED systems
O.J. Morin 93(1993)69-109

Fuel economics: A comparative study of dual-purpose power and desalination plants in the WED grid based on a constant heat value of water
M.N. Saeed 93(1993)409-429

Comparative evaluation of industrial membranes: Correlation between transport and operational parameters
S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta 94(1993)1-10

A comparative study of common metals scavenging efficiency for aqueous sulfide or sulfite pollutants in salt solution
M.R. Reda and J.N. Alhajji 94(1994)273-288

Comparative study of flash evaporation rates
O. Miyatake 96(1994)163-171

Comparative study of two anti-scale agents Belgard EVN and Belgard EV 2000 in multi-stage flash distillation plants in Kuwait
S.A. Al-Saleh and A.R. Khan 97(1994)97-107

Complexation-ultrafiltration

Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid
Q.T. Nguyen, Y. Jyline and J. Neel 36(1981)277-283

Composite membranes

Effect of porous backing substrates on membrane flux in reverse osmosis systems
A. Gollan and G. Dagan 8(1970)261-275

Salt transport in composite reverse osmosis membranes
L. Dresner 15(1974)371-374

Composite reverse osmosis membranes prepared from polyvinyl alcohol and toluene diisocyanate *(in French)*
R. Dick and L. Nicolas 17(1975)239-255

Hollow fiber composite membrane modules for reverse osmosis
R.B. Davis, R.D. Burchesky and M J. Coplan 22(1977)221-227

Low pressure composite membrane
R.G. Sudak and M.E. McKee 22(1977)235-242

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami 23(1977)331-355

Reverse osmosis by composite charged membranes
H. Nomura, M. Seno, H. Takahashi and T. Yamabe 29(1979)239-246

Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis
M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara 32(1980)13-23

A new thin-film composite seawater reverse osmosis membrane
J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson 32(1980)25-31

Recent developments in thin-film composite reverse osmosis membrane systems
R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami 36(1981)207-233

The application of thin film composite membranes in plate-and-frame systems for water purification
W. K. Nielsen and S. Kristensen 38(1981)383-396

Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials
M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi 38(1981)449-460

The FT-30 seawater reverse osmosis membrane: Element test results
R.E. Larson, J.E. Cadotte and R.J. Petersen 38(1981)473-483

Experiments with desalination of Arabian Gulf water
M. El-Salem 39(1981)261-271

RO separation of rare earth ions from aqueous solution by hydrous Fe oxide-cellulose composite membrane
Y. Kurokawa 41(1982)115-119

Preparation and properties of a composite charged membrane
D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn 41(1982)249-261

The prospects of water removal by hyperfiltration using thin film composite membranes
W. K. Nielsen and S. Kristensen 41(1982)277-288

Experience with desalination of sea and brackish water using minimum pretreatment and high temperature
W.K. Nielsen 46(1983)67-79

Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements
R. E. Larson, R. J. Petersen and P. K. Eriksson 46(1983)81-90

Hyperfiltration through crosslinked monolayers II
S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring 46(1983)369-378

Transport coefficients of asymmetric and composite membranes
J.-Y. Chen, M. Kurihara and W. Pusch 46(1983)379-388

Comparison of two thin-film composite membranes: Low pressure FT-30 to very low pressure NF40HF
S.D.N. Freeman and T.F. Stocker 62(1987)183-191

Characteristics of PFI composite reverse osmosis membrane
Lu Xueren and Gao Congjie 62(1987)203-210

Crosslinked PVA-PS thin-film composite membrane for reverse osmosis
She Jian and Shen Xiao Ming 62(1987)395-403

Aromatic/cycloaliphatic polyamide membrane
S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown 64(1987)259-269

Composite membranes of aromatic polyamide for desalination: Membrane preparation and characterization
J. Lora and E. Soriano 64(1987)375-386

New thin-film composite low pressure reverse osmosis membranes and spiral wound modules
I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama 64(1987)387 -401

Reverse osmosis TFC magnum elements for chlorinated/dechlorinated feedwater processing
W.G. Light, H.C. Chu and C.N. Tran 64(1987)411-421

New composite charged reverse osmosis membrane
K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto 68(1988)109-119

Characterization of a new reverse osmosis composite membrane for industrial application
A. J. Naaktgeboren, G. J. Snijders and J. Gons 68(1988)223-242

The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid)
A.J. van Reenen, N.A. Dowler and R.D. Sanderson 69(1988)1-8

Investigation of performance of TMM-FA composite membrane for reverse osmosis
Wang Wentong 69(1988)235-239

Desalination of non-chlorinated surface seawater using TFC^R membrane elements
W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham 70(1988)47-64

High-temperature reverse osmosis membrane element
H.C. Chu, J.S. Campbell and W.G. Light 70(1988)65-76

Composite melamine-formaldehyde-furfuralcohol copolymerization membrane for reverse osmosis
Wang Wentong 70(1988)137-142

Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
W. Pusch, Y.-L. Yu and L.-Y. Zheng 75(1989)3-14

New composite tubular membranes for ultrafiltration
W. Doyen, R. Leysen, J. Mottar and G. Waes 79(1990)163-179

Several engineering equations in the design of reverse osmosis plants
J. Zhou, H. Ohya and K. Matsumoto 80(1991)15-30

Performance and fouling of inorganic tubular microfilters
J.J. Porter and Shuzhong Zhuang 107(1996)203-215

Computer

Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion
C.J. Huang, H.M. Lee and A.E. Dukler 6(1969)25-56

A computer method for engineering and economic evaluation of electrodialysis plants
M. Avriel and N. Zelingher 10(1972)113-146

Application of a design computer code to determine the off-design characteristics of the Gibraltar vertical tube evaporator desalination plant
D.C. Guneratne 13(1973)343-358

Modular program for design and simulation of desalination plants
R. Rautenbach and H. G. Büchel 31(1979)85

Engineering management of desalination plants in Saudi Arabia using fuzzy decision analysis
A.F. Abdul-Fattah 37(1981)343-350

Development of SOLAR DESAL, a code for modeling, simulation and design of solar desalination systems
T. E. Dix 39(1981)169-170

Computer code for optimizing MSF desalination plant
H. T. A. El-Dessouky and G. M. R. Assassa 45(1983)111-112

Dynamic stability of MSF desalination plants
G.M.R. Assassa and H.T.A. El-Dessouky 45(1983)133

Predictability of membrane performance of reverse osmosis systems for seawater desalination
B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad 75(1989)55-69

Computerized instrumentation and control for reverse osmosis systems
E. Fredkin and R. Banks 75(1989)141-148

Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia
J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli 75(1989)379-393

Corrosion experience data bank system for desalination and power plants (COREX)
A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum 84(1991)251-266

Improvement of the design and operation of desalination plants by computer modelling and simulation
M.T. Rahbar 92(1993)253-269

Ocean brine disposal
J.V. Del Bene, G. Jirka and J. Largier 97(1994)365-372

Computer simulation

Waterhammer studies of power/desal plants cooling water system with common discharge conduit
W.S. Hsieh and J.R. Stange 31(1979)183-184

Solar distillation: The solar-driven case
J.P. Gerofi, G.G. Fenton and E. Mannik 39(1981)83-94

Simulation of thermal desalination processes, some results
R. Rautenbach and H.G. Büchel 45(1983)37

Simulation of MSF desalination plants
A. M. Omar 45(1983)65-76

Simulation of a multieffect solar distillator
S. Toyama, T. Aragaki, K. Murase and K. Tsumura 45(1983)101-108

Computer simulations of multiple-effect FFE-VC systems for water desalination
G. Aly 45(1983)119-131

Computer simulation of the horizontal falling film desalination plant
H. T. El-Dessouky and G. M. R. Assassa 55(1985)119-138

Transient simulation studies on a multi-stage stacked tray solar still
R.S. Adhikari and A. Kumar 91(1993)1-20

Dynamic behavior of MSF desalination plants
N.H. Aly and M.A. Marwan 101(1995)287-293

Concentrate disposal

Disposal of concentrate from brackish water desalting plants by use of deep injection wells
A. Muniz and S.T. Skehan 78(1990)41-47

The use of solar ponds in the disposal of desalting concentrate
B. E. Smith 78(1990)59-70

Disposal of concentrates from brackish water desalting plants by means of evaporation technology
L. Awerbuch and M.C. Weekes 78(1990)71-76

The Disposal of desalting concentrates where do we go from here? A roundtable discussion
B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros 78(1990)99-112

Case study: Integrating membrane processes with evaporation to achieve economical zero liquid discharge at the Doswell Combined Cycle Facility
A. Seigworth, R.Ludlum and E. Reahl 102(1995)81-86

The regulation of concentrate disposal in Florida
J.K.Kimes 102(1995)87-92

Survey of membrane drinking water plant disposal methods
J. Truesdall, M. Mickley and R. Hamilton 102(1995)93-105

Desalting residuals: A problem or a beneficial resource?
W.R. Everest and T. Murphree 102(1995)107-117

Concentrated solutions

Countercurrent flow osmotic processes for the production of solutions having a high osmotic pressure
S. Loeb and M.R. Bloch 13(1973)207-215

An analytical method for design of electrodialysis stacks operated at high concentrations
D. Barba, F. Evangelista, G. Jonsson and L. Marrelli 71(1989)137-149

Concentrates

Characterization of desalting concentrates
I.C. Watson 78(1990)5-9

Historic development of the concentrate regulations
W.J. Conlon 78(1990)11-16

Current regulatory concerns related to the disposal of RO concentrates in Florida
R.S. Dehan 78(1990)17-26

Concentration

Behaviour of an electrodialysis unit cell
L.J. Mas, P.M. Pierrard, P.A. Prax and J.C. Sohm 7(1970)285-296

A mathematical model for the concentration field in an electrodialysis cell
D. Pnueli and G. Grossman 7(1970)297-308

Diffusion-layer structure in reverse osmosis channel flow
T.J. Hendricks and F.A. Williams 9(1971)155-180, Err. 9(1971)296

An optimized hyperfiltration process for concentrating aqueous solutions of high osmotic pressure
H. F. Van Wijk, A. E. Jansen and R. J. M. Creusen 51(1984)103-112

Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants
V. Slesarenko and A. Shtim
71(1989)203-210

Concentration and purification of gelatin liquor by ultrafiltration
B. Chakravorty and D.P. Singh
78(1990)279-286

Mass and heat transfer mechanisms in the osmotic distillation process
Jin Sheng, R.A. Johnson and M.S. Lefebvre 80(1991)113-121

Industrial water production by utilization of a reverse osmosis and an evaporation plant
R. Borsani, M. Fazio and B. Ferrando
108(1996)231-245

Thickness and concentration profile of the boundary layer in electrodialysis
M. Law, T. Wen and G.S. Solt
109(1997)95-103

Concentration polarization

Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method
R.J. Raridon, L. Dresner and K.A. Kraus 1(1966)210-224

Concentration polarization effect in ion exchange membrane electrodialysis
T. Yamabe and M. Seno
2(1967)148-153

Neutrality-disturbance phenomenon of membrane-solution systems
Y. Oda and T. Yawataya
5(1968)129-138

Control of concentration polarization in reverse osmosis desalination of water
H. Strathmann and B. Keilin
6(1969)179-201

A simplified method for the prediction of concentration polarization in reverse osmosis operation for multicomponent systems
S. Srinivasan and C. Tien
7(1970)133-145

Concentration polarization at the phase boundary of an external tubular reverse osmosis membrane
C.K. Tsao 8(1970)243-258

Asymmetric behaviour of cellulose acetate membranes in hyperfiltration experiments as a result of concentration polarisation
R. Gröpl and W. Pusch
8(1970)277-292

Concentration polarization in the reverse osmosis desalination of sea water
J.S. Johnson and J.W. McCutchan
10(1972)147-156

Natural convection effect in reverse osmosis
S. Srinivasan and C. Tien
10(1972)273-286

Permeability measurements of flat seawater membranes
J.P. Agrawal, C.R. Antonson and N.W. Rosenblatt 11(1972)71-90

Reverse osmosis: Increased productivity by reduction of concentration polarization in laminar flow reverse osmosis using intermediate non-rejecting membrane sections
R.A. Shaw, R. Deluca and W.N. Gill
11(1972)189-205

Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off
M. Metayer, C. Bourdillon and E. Selegny 13(1973)129-146

Effect of imperfect salt rejection on concentration polarization in reverse osmosis systems
S. Srinivasan and C. Tien
13(1973)287-301

Concentration polarization in a reverse osmosis test cell
G. Jonsson and C.E. Boesen
21(1977)1-10

Note on the paper "Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method"
P.S. Ravishankar 21(1977)341-342, Err. 1(1966)210

Use of fluidised beds as turbulence promotors in tubular membrane systems
M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay 22(1977)465-483

Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow
R.F. Probstein, J.S. Shen and W.F. Leung 24(1978)1-16

Concentration polarization profile for dissolved species in unstirred batch hyperfiltration (reverse osmosis). II. Transient case
D. Mahlab, N. Ben Yosef and G. Belfort 24(1978)297-303

Concentration polarization and solute—membrane interactions affecting pressure driven membrane processes
E. Drioli and F. Bellucci
26(1978)17-36

Membrane technology research at Lund Institute of Technology
G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt 27(1978)81-89

Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions
F. Bellucci and N. Esposito
28(1979)181-191

Use of thin-channel systems for ultrafiltration and hyperfiltration
W. K. Nielsen and R. F. Madsen
34(1980)113-130

Concentration polarization and fouling
E. Matthiasson and B. Sivik
35(1980)59-103

Ultrafiltration at low degrees of concentration polarization: Technical possibilities
M. López-Leiva 35(1980)115-128

Overview of concentration polarization in ultrafiltration
S. Bruin, A. Kikkert, J. A. G. Weldring and J. Hiddink
35(1980)223-242

A critical review of fouling of reverse osmosis membranes
D. E. Potts, R. C. Ahlert and S. S. Wang 36(1981)235-264

Effects of acceleration on reverse osmosis desalination
G.B. Andeen 36(1981)265-275

Performance evaluation and process design of an electrodialysis plant by overpotential measurements
R. Passino, C. Marra, A. Rozzi and G. Tiravanti 41(1982)181-197

Towards an inductive understanding of membrane fouling
G. Belfort and W. Altena 47(1983)105-127

Polarization studies on interpolymer ion exchange membranes
V.K. Indusekhar and N. Krishnaswamy 48(1983)267-279

Membrane fouling and determination of gel layer growth rate in membrane separation
Shusen Wang and Giajun Hu 56(1985)405-412

Analysis of laminar flow precipitation fouling on reverse osmosis membranes
J. Gilron and D. Hasson 60(1986)9-24

Mass transfer, fluid flow and membrane properties in flat and corrugated plate hyperfiltration modules
I. G. Rácz, J. Groot Wassink and R. Klaassen 60(1986)213-222

Mass transfer and the fluidized bed intensification of reverse osmosis
Wang Xuesong 62(1987)211-220

Role of the membrane surface in concentration polarization at ion-exchange membrane
I. Rubinstein, E. Staude and O. Kedem 69(1988)101-114

Permeate flux improvement along a tubular ultrafiltration membrane
B. Dutre and D. Taeymans 70(1988)317-326

Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins
R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel 79(1990)217-231

The industrial application of ultrafiltration membranes
Bing-hua Zhu and Peng Cheng 90(1993)119-126

Concentration polarization and water splitting at electrodialysis membranes
V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright 91(1993)225-252

Modeling and calculation of temperature-concentration polarisation in the membrane distillation process (MD)
S.P. Agashichev and A.V. Sivakov 93(1993)245-258

Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons
C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele 95(1994)91-113

Study of an analytical model for hollow fiber reverse osmosis module systems
M. Sekino 100(1995)85-97

Effects of spacer geometry on pressure drop, mass transfer, mixing behavior, and residence time distribution
C.C. Zimmerer and V. Kottke 104(1996)129-134

Influence of organic matter from waste water on the permeability of membranes
W. Reimann 109(1997)51-55

Concentration/desalination balance

Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis
G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov 46(1983)171-177

Concentrators

Application of concentrator on the treatment of industrial waste water
M. Miura and K. Harada 98(1994)375-381

Concrete

Additives for alkaline scale control at temperatures above 93°C (200°F)
M.N. Elliot, T.D. Hodgson and A. Harris 14(1974)43-55

Concrete structures for desalination plants (in French)
A. Bernard and R. Lacroix 29(1979)331-336

Concrete structure for desalination plants *(in French)*
A. Bernard, R. Lacroix and M. Izabel 31(1979)385

Durability of concrete structures in the hostile service environment of desalination plants
L. Awerbuch and M.A. Daye 97(1994)221-232

Concrete evaporator shell

Utilization of cement concrete as an evaporator shell material
Y. Nojiri and K. Fujii 19(1976)45-54

Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities
Y. Tazawa, Y. Nojiri and K. Fujii 22(1977)111-120

Condensate films

Hydrodynamics of condensate films on fluted tube surfaces. Part I
T.G. Somer and C. Özgen 34(1980)233-247

Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II
T.G. Somer and C. Özgen 34(1980)249-265

A theoretical study on hydrodynamics of condensate films over fluted tubes
C. Özgen and I. Tosun 45(1983)251

Condensation

Investigation of water steam drop condensation conditions
L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova 2(1967)337-344

Equations for condensation in fluted tubes *(in German)*
B. Kunst 45(1983)265-279

Effect of inclination on the heat transfer performance of fluted tubes with and without drainage discs
A. Büyükyilmaz, C. Özgen and T.G. Somer 65(1987)3-23

A theoretical study of enhanced condensation over horizontal fluted tubes
K. Fathalah, S. E. Aly, M. Darwish and A. Radhwan 65(1987)25-42

Heat exchange at dropwise condensation in heat exchangers of desalination plants
V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi 74(1989)373-382

Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations
V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny
81(1991)367-381

Condensate re-use by ultrafiltration oil removal
V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev
83(1991)195-207

The use of hollow fiber filters to improve condensate purification efficiency in thermal power plants
H. Koushiro and Y. Kubo
98(1994)361-373

Utilization of a forced condensing technique in a moving film inclined solar desalination still
N.H.A. Rahim 101(1995)255-262

Condensation coefficients

Reviewing the evaporation coefficient
K. Hickman 1(1966)13-29

Influence of noncondensables on modern thermal desalination
J. Bharadwaj and V.R. Raghavan
49(1984)357-365

Condenser tubes

The development of enhanced heat transfer condenser tubing
I.H. Newson and T.D. Hodgson
14(1974)291-323

Quality control problems in copper alloy tubes manufacturing
G. Gusmano and G. Dall'Omo
38(1981)281-293

The effect of vapour shear and condensate drainage in condenses using roped tubes
J. Cunningham and M. Bahjernejad
45(1983)135-142

Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water
H.I. Al-Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din
109(1997)25-37

Condensers

Use of double-fluted tubes in vertical preheaters and condensers of MSF distillation plants
L. Awerbuch and A.N. Rogers
17(1975)121-130

Comparison of MSF heat rejection sections and seawater cooled power station condensers
B.M. Watson and K. Eimer
38(1981)49-56

Losses in MSF desalination units
H.T.A. El-Dessouky 44(1983)103

An update of intube forced convection heat transfer coefficients of water
T.J. Rabas and D. Cane
44(1983)109-119

An improved MSF condenser design
T.J. Rabas 55(1985)169-183

Using a homogeneous model in simulation of sea water desalination condenser
P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
65(1987)123-138

Method for extending heat exchanger and condenser life
C.P. Tallman, Sr. 73(1989)231-246

A calculation method for condensers in multi-stage evaporators with non-condensable gases
K. Genthner and A. Seifert
81(1991)349-366

Conductance measurements

Polymers that inhibit the deposition of calcium sulphate: some interesting conductance observations
P.F. Rolfe 1(1966)359-366

Transport within ion-exchange membranes
R.A. Wallace and J.P. Ampaya
14(1974)121-134

A method of characterizing ion-exchange membranes by conductance measurements
F.L. Ramp 16(1975)321-329

Conducting spacers

Reduction of polarization in electrodialysis by ion-conducting spacers
O. Kedem 16(1975)105, Err. 17(1975)143

Demineralization by electrodialysis
K.P. Govindan and P.K. Narayanan
19(1976)229-239

Ion conducting spacer for improved electrodialysis
O. Kedem and Y. Maoz
19(1976)465-470

Conduits

Flow of flashing water in conduits
A.N. Dickson and R.S. Silver
2(1967)175-195

Theoretical analysis of horizontal condenser-evaporator conduits of various cross-sections
S. Sideman, D. Moalem and R. Semiat
17(1975)167-192

Flashing flow of water in conduits between chambers in MSF units
A.A. Rizk, M.A. Darwish and S.M. El-Haggar 20(1977)299-318

Two-phase flashing flow in conduits
M.A. Darwish 26(1978)285-297

Effect of the configuration on heat transfer to gravity driven film evaporating on grooved tubes
S. Sideman and A. Levin
31(1979)7-18

Conference report

Drinking water for all
51(1984)227-230

Construction

Operational experience of once through MSF desalination units
A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja 73(1989)327-340

Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia
P. Wong, P. Docker, E. Gabbrielli and P. Wade 98(1994)225-238

Modernizing the desalination industry
R.P. Hammond 107(1996)101-109

Contact angle

Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes
D. Moalem-Maron, R. Semiat and S. Sideman 34(1980)289-309

Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles
W. Zhang, M. Wahlgren and B. Sivik 72(1989)263-273

Contact stabilization

Contact stabilization of potential calcium carbonate scale by rhodochrosite
K.S. Johnson 48(1983)17-23

Contaminant removal

Ultrapure water system design considerations
P. S. Cartwright 67(1987)171-184

Potential for water reuse in conjunction with desalination systems
R.M. Ahlgren 75(1989)315-328

Continuous Countercurrent ion exchange

Water-softening by continuous counter-current ion-exchange single column technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 48(1983)281-292

Brackish water desalination by a continuous counter-current ion exchange technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 52(1985)317-326

Continuous crystallizers

The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers
S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim 17(1975)3-16

Dynamic modelling and partial simulation of a pilot scale column crystallizer
N. Akhtar, L. McGrath and P.D. Roberts 28(1979)1-11

Continuous ion exchange

The Avco continuous moving bed ion-exchange process and large scale desalting
H. Gold, A. Todisco, A.A. Sonin and R.F. Probstein 17(1975)97-109

Control loops

Selecting and tuning the control loops of MSF desalination for robustness
M.H. Ali El-Saie and M.H. Erfan Hafez 97(1994)529-540

Control system

A control system for multi-stage flash desalination plants
R. Greffrath and F. Mayinger 31(1979)71-83

Distributed control systems for desalination
E.V. Kelley 39(1981)3-21

Description and mathematical model of a large MSF desalination plant in SCADA configuration
D. M. Khamis Fareigh and S. Arazzini 55(1985)91-106

System identification and control of reverse osmosis desalination
I.M. Alatiqi, A.H. Ghabris and S. Ebrahim 75(1989)119-140

Robust control with engineering applications: An overview
A. Ismail 92(1993)57-78

Manageable automation systems for power and desalination plants
D.M.K. Al-Gobaisi, A.S. Barakzai, M. Abdul Aziz and A. Hassan 92(1993)211-251

Some design and monitoring criteria for large/medium MSF plants
A. Massarani and F. Fusetti 92(1993)377-388

An approach to improving the effectiveness of a large-scale complex utility organization
B. Makkawi-Ahmed and A. Damodaram 93(1993)365-372

Cooling

A method of using irrigation drainage water for power plant cooling
H.H. Sephton and G. Klein 19(1976)257-268, Err. 21(1977)234

Assessment of MSF-evaporator design with reduced cooling water requirements
K. Genthner and M. El-Allawy 31(1979)57-68

Waterhammer studies of power/desal plants cooling water system with common discharge conduit
W.S. Hsieh and J.R. Stange 31(1979)183-184

The effect of air on condensation on a roped tube
J. Cunningham and A. Holmes 38(1981)65-74

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with some reducing agents at various temperatures
M. Iovchev and I. Bankovska 42(1982)221-228

The use of reverse osmosis as a 35,600 m^3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia
T. Bryant, J. Stuart, I. Fergus and R. Lesan 67(1987)327-353

Copolymerization

Gamma radiation induced graft copolymerization of acrylate monomers onto isotactic polypropylene
I. Kaur and B. N. Misra 64(1987)271-284

Copper

Investigation of water steam drop condensation conditions
L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova 2(1967)337-344

Some comments on "The corrosion of materials in desalination plants"
L.H. Bennett and L.J. Swartzendruber 4(1968)389-390, Err. 4(1968)391-392

Effect of iron and copper during scale suppression by threshold compounds
J. Block, B.M. Watson, L.A. Burkholder and B. Albano 15(1974)279-286

Removal of accumulated deposits by chemical treatments in multistage flash distillation units
A. Brandel and J. Riebe 31(1979)341-350

Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid
Q.T. Nguyen, Y. Jyline and J. Neel
36(1981)277-283

Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand
N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio
38(1981)223-231

Quality control problems in copper alloy tubes manufacturing
G. Gusmano and G. Dall'Omo
38(1981)281-293

Comments on erosion-corrosion of copper alloy C72200 in seawater containing suspended sand
C.J. Gaffoglio 42(1982)345-349

MSF (multi stage flash) desalination plants: Copper alloy tubes, their economic aspects for overall cost reduction
V. Canetta and N.M. Valota
55(1985)307-317

The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis
Xue Deming, Song Dezheng and Liu Xiaoying 62(1987)251-257

Copper alloy tube for MSF desalination plant: Some practical considerations
N.M. Valota 66(1987)245-256

Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi
E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal 97(1994)109-119

Electroplating rinse waste water treatment by ion exchange
I. Dobrevsky, M. Dimova-Todorova and T. Panayotova 108(1996)277-280

Copper alloys

Corrosion of materials in desalination plants
B. Todd 3(1967)106-117

Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics
K.R. Fröhner 21(1977)147-164

Corrosion problems of copper alloys in desalination plants
L. Giuliani and R. Cigna
22(1977)379-384

Acid cleaning and passivation of power plant condensers and desalination plants
R. Cigna, A. De Maio, L. Giuliani and G. Gusmano 38(1981)269-279

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

Effect of residual and minor constituents on the corrosion behaviour of some technically important alloys
A.M. Shams El Din 93(1993)487-498

Copper alloys for desalination plants
A.M. Shams El Din 93(1993)499-516

Stress corrosion cracking of copper-nickel alloys in sulphide polluted natural seawater at moderate temperatures
K. Habib and A. Husain
97(1994)29-34

Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water
H.I. Al-Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din
109(1997)25-37

Copper nickel alloys

Use of ultrasonics in laboratory development tests of cupro-nickel alloys for desalination
L.J. Swartzendruber and L.H. Bennett
9(1971)387-389

Corrosion considerations in selecting metals for flash chambers
J. W. Oldfield and B. Todd
31(1979)365-383

Factors affecting the corrosion behaviour of CN 108 alloy in sea water
G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa
74(1989)259-276

Electrochemical behavior of copper-nickel alloys in sulphide polluted seawater at moderate temperatures
K. Habib 89(1992)41-46

The corrosion performance of 90-10 cupronickel in Arabian Gulf water containing ammonia
Z. Ahmad and B.J. Abdul Aleem
95(1994)307-323

Hydrogen absorption and its prevention of titanium in a simulated descaling environment in a desalination plant
H. Satoh 97(1994)45-51

Clad steel for seawater service
T. Fukuda, T. Fukami, Y. Baba and K. Honma 97(1994)121-129

Cord membranes

Development of cord membranes: A new reverse osmosis membrane configuration
A. S. Bal and S. Peter
46(1983)351-352

Optimizing design and cost of seawater reverse osmosis systems
J.C. van Dijk, P.J. de Moel and H.A. van den Berkmortel 52(1984)57-73

Cord membrane — A new reverse osmosis membrane configuration
A.S. Bal 83(1991)301-324

Corrosion

Corrosion of materials in desalination plants
B. Todd 3(1967)106-117

Stress corrosion of austenitic stainless steels in chloride environments *(in French)*
S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
3(1967)118-124

Pitting of titanium alloys in saline waters
F.A. Posey and E.G. Bohlmann
3(1967)269-279

Some comments on "The corrosion of materials in desalination plants"
L.H. Bennett and L.J. Swartzendruber
4(1968)389-390, Err. 4(1968)391-392

Corrosion of mild steel under operating conditions of a distillation desalting plant
E.V. Konstantinova and L.S. Semenova 5(1968)90-94

The corrosion of aluminium alloys in hot brine
J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence 9(1971)245-258

Use of ultrasonics in laboratory development tests of cupro-nickel alloys for desalination
L.J. Swartzendruber and L.H. Bennett 9(1971)387-389

Influence of scale prevention on corrosion of heat-transfer tube
J. Sakuma, T. Takagi, S. Yamada and Y. Kibe 14(1974)189-196

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

The field assessment of a high temperature scale control additive and its effect on plant corrosion
M.A. Finan, A. Harris and S. Smith 20(1977)193-201

Bluehills desalination plant — Engineering investigation
O.J. Morin 22(1977)13-20

Report on the high flow rate long tube designed multistage flash evaporator test module
S. Toyama 22(1977)21-30

Corrosion under heat flux encountered in desalination plant
S. Kido and T. Shinohara 22(1977)369-378

Corrosion problems of copper alloys in desalination plants
L. Giuliani and R. Cigna 22(1977)379-384

Corrosion resistance of titanium in MSF desalination plant
K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka 22(1977)403-413

Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants
T. Nakahara, H. Sasaki, Y. Kanda and H. Togano 23(1977)151-160

Corrosion of welds in seawater
T. Hodgkiess, N. Eid and W.T. Hanbury 27(1978)129-136

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

Corrosion measurement and assessment in acid dosed desalination plants
K. Harding and D.A. Bridle 28(1979)89-108

Comparison of corrosion and scaling behaviour of two acid-dosed MSF seawater distillation plants
F.C. Wood and Y.N. Wu 30(1979)347-358

Corrosion considerations in selecting metals for flash chambers
J. W. Oldfield and B. Todd 31(1979)365-383

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube
T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo 31(1979)389-398

Corrosion of welded samples in seawater
T. Hodgkiess, W. T. Hanbury, M. Arndt and N. Eid 31(1979)399-410

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf
T.G. Temperley 33(1980)99-107

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf (Letter to the Editor)
K. Hill 34(1980)325-326

In situ corrosion study of stainless steels in an MSF desalting plant
S. Nordin 38(1981)151-

Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand
N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio 38(1981)223-231

Corrosion problems caused by bromine formation in MSF desalination plants
J.W. Oldfield and B. Todd 38(1981)233-245

Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater
T. Hodgkiess and A. Asimakopoulos 38(1981)247-256

Acid cleaning and passivation of power plant condensers and desalination plants
R. Cigna, A. De Maio, L. Giuliani and G. Gusmano 38(1981)269-279

Pre-service corrosion control in multiflash desalination plants
L. Giuliani 38(1981)295

Operational experience of 2 x 11,500 m^3d MSF seawater desalination plant
S. Khalaf, M. Alarrayedh and A.M. Alawadi 39(1981)219-227

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

Operating experience of MSF units in Saudi Arabia
N. Nada 41(1982)57-69, Err. 41(1982)337

Comments on erosion-corrosion of copper alloy C72200 in seawater containing suspended sand
C.J. Gaffoglio 42(1982)345-349

Corrosion problems caused by bromine formation in additive dosed MSF desalination plants
W.S.W. Lee, J.-W. Oldfield and B. Todd 44(1983)209-221

Corrosion tests of a range of materials in three MSF plants
T. Hodgkiess, W. T. Hanbury and M. H. Hejazian 44(1983)223-232

Some results of the investigations on corrosion protection of desalination plant equipment
A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko 44(1983)233-239

Experience with a high molybdenum stainless steel in saline environments
J. Olsson and B. Wallen 44(1983)241-254

Studies on stainless steels for service in desalination plants
S. Nordin 44(1983)255-263

Application potential of a modified aluminium alloy in Arabian Gulf desalination plants
Z. Ahmed and S. Rashidi 44(1983)265-276

Anticorrosion coatings for equipment and pipelines of desalting plants
V. G. Shigorin 44(1983)277-282

Desalination plant control with microprocessor based digital technology
G. O. Hultin and R. Harper 45(1983)329-336

Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia
F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani 45(1983)345-355

Continuous corrosion monitoring in desalination plants
R. Cigna, L. Giuliani and G. Gusmano 55(1985)219-227

The corrosion behaviour of a number of materials exposed to bromine-containing environments
T. Hodgkiess, N.K. Ng and P. Argyropoulos 55(1985)229-246

The effect of iron (pick-up) on sea water corrosion properties of welded $CuNi_{10}Fe$ steel compounds
M. Pötzschke, M.B. Rockel and G. Rudolph 55(1985)281-282

The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers
K. Genthner, S. Khalaf, W. Ruehle and A. Seifert 65(1987)171-186

Galvanic studies related to the use in desalination plant of corrosion-resistant materials
T. Hodgkiess, A. Maciver and P. Y. Chong 66(1987)147-170

Vapour side corrosion in MSF plants
J. W. Oldfield and B. Todd 66(1987)171-184

Pitting corrosion behaviour of aluminium in water desalination plants
M.G.A. Khedr, M.M.H. Badran and A.A. El-Azhari 72(1989)351-366

Rehabilitation of desalination plants at Sitra Power Station, Bahrain
K. Borashid and K. Kato 73(1989)277-293

Experience with desalination plants in Libya
A.I. El-Twaty and S.A. Karshman 73(1989)385-396

Localized corrosion at welds in structural steel under desalination plant conditions Part I: Effect of surface roughness and type of welding electrode
N.M.A. Eid 73(1989)397-406

Localized corrosion at welds in structural steel under desalination plant conditions. Part II: Effect of heat treatment, test temperature and test media
N.M.A. Eid 73(1989)407-415

Light gauge welded titanium tubes for seawater desalination plants
K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida 73(1989)429-446

Some aspects of the development and operation of the desalination installations with horizontal-tube thin-film evaporators
V.I. Podbereznyi, J.K. Smirnov and J.V. Putilin 73(1989)447-455

Corrosion behaviour of aluminium-base alloys in desalination plants
O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova 73(1989)457-458

Jeddah stack emissions problems and solutions
A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch 73(1989)459-470

Corrosion experience data bank system for desalination and power plants (COREX)
A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum 84(1991)251-266

Failure of sections and components in seawater RO plants
A. Abu-Safiah 84(1991)309-333

The effect of molybdenum on the corrosion behaviour of some steel alloys
M.I. Hazza and M.E. El-Dahshan 95(1994)199-209

The corrosion performance of 90-10 cupronickel in Arabian Gulf water containing ammonia
Z. Ahmad and B.J. Abdul Aleem 95(1994)307-323

Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi
E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal 97(1994)109-119

Storage and retrieval of corrosion data of desalination plant owners
A. Hassan, E.A. Al-Sum and S. Aziz 97(1994)131-146

Solutions for problems in corrosion and environmental impact on 2x3000 m^3/d MSF desalination plants
Xu Kejun, Wang Schichang and Yang Yaozhong 97(1994)159-164

Localized corrosion of AISI 316L S.S in Arabian Gulf seawater
A.U. Malik and S.A. Al-Fozan 97(1994)199-212

Stainless steel for high pressure piping in SWRO plants. Are there any options?
J. Nordström and J. Olsson 97(1994)213-220

Failure evaluation of desalination plants — Some case studies
A.U. Malik, T.L. Prakash and I. Andijani 105(1996)283-295

Environmental aspects of corrosion in MSF and RO desalination plants
J.W. Oldfield and B. Todd 108(1996)27-36

Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water
H.I. Al-Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din 109(1997)25-37

Corrosion behavior

The corrosion behaviour of a number of materials exposed to bromine-containing environments
T. Hodgkiess, N.K. Ng and P. Argyropoulos 55(1985)229-246

The use of stainless steels and related alloys in reverse osmosis desalination plants
J. W. Oldfield and B. Todd 55(1985)261-280

The effect of iron (pick-up) on sea water corrosion properties of welded $CuNi_{10}Fe$ steel compounds
M. Pötzschke, M.B. Rockel and G. Rudolph 55(1985)281-282

Factors affecting the corrosion behaviour of CN 108 alloy in sea water
G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa 74(1989)259-276

Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf
H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin 78(1990)327-341

Assessment of lower-alloy stainless steels for use in desalination plant
T. Hodgkiess and P.S. Chia 84(1991)267-278

Localized corrosion behavior in stainless structural steels weldments under desalination plant condition
H. Al-Zahrani, S. Somuah and N.M.A. Eid 84(1991)349

Corrosion behavior of Al-Brass in polluted natural seawater
K. Habib and A. Julka 84(1991)350

Effect of residual and minor constituents on the corrosion behaviour of some technically important alloys
A.M. Shams El Din 93(1993)487-498

The effect of molybdenum on the corrosion behaviour of steel alloy in sea water
A. Al-Arifi, M.E. El-Dahshan and M.I. Hazzaa 97(1994)77-86

Corrosion behavior of some highly alloyed stainless steels in seawater
A.U. Malik, N.A. Siddiqi and I.N. Andijani 97(1994)189-197

Corrosion control

Pre-service corrosion control in multiflash desalination plants
L. Giuliani 38(1981)295

Corrosion control of feeders carrying potable water from desalination of sea water. Case of Yanbu Medina water supply (Saudia Arabis)
P. Leroy 44(1983)317-324

Measurements and control related to corrosion and scale in water desalination installations
C.F. Schrieber 59(1986)425-444

Corrosion inhibition

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water Compatibility with some reducing agents at various temperatures
M. Iovchev and I. Bankovska 42(1982)221-228

Possibilities of corrosion prevention and removal in seawater exposed structures and desalination plants
U. Rohlfs and H.-D. Schulze 55(1985)283-296

Measurements and control in flash evaporator plants
F.A. Drake 59(1986)241-262

The problem of "red waters": A new approach to its solution
A.M. Shams El Din 60(1986)75-88

Corrosion engineering of high pressure piping in RO-plants
S. Nordin and J. Olsson 66(1987)235-244

A recarbonation process for treatment of distilled water produced by MSF plants in Kuwait
H.E. Al-Rqobah and A. Al-Munayyis 73(1989)295-312

The inhibition effect of sodium molybdate on the initiation of corrosion fatigue of 1020 mild steel in aqueous solution
A. Husain, K. Habib and R. Jarman 99(1994)113-118

Mechanism of corrosion inhibition by sodium molybdate
A.M. Shams El Din and Linfu Wang 107(1996)29-43

Corrosion-free collectors with selectively coated plastic absorbers
M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr 109(1997)149-155

Corrosion, Pitting

Pitting of titanium alloys in saline waters
F.A. Posey and E.G. Bohlmann 3(1967)269-279

Pitting corrosion behaviour of aluminium in water desalination plants
M.G.A. Khedr, M.M.H. Badran and A.A. El-Azhari 72(1989)351-366

Corrosion resistance

MSF evaporator fabricated from reinforced thermosetting materials
O. J. Morin and R. A. Johnson 31(1979)355-363

In situ corrosion study of stainless steels in an MSF desalting plant
S. Nordin 38(1981)151-

A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C
T. Hodgkiess and S. Rigas 44(1983)283-294

Corrosion resistance of stainless steels and nickel alloys in artificial sea water
M. Pötzschke and M.B. Rockel 44(1983)295-305

Galvanic studies related to the use in desalination plant of corrosion-resistant materials
T. Hodgkiess, A. Maciver and P. Y. Chong 66(1987)147-170

Experiences with a highly alloyed stainless steel in desalination plants and other Arabian Gulf industrial plants
J. Olsson and M.L. Erbing 73(1989)267-275

Corrosion resistant materials for seawater RO plants
A.M. Hassan and A.U. Malik 74(1989)157-170

Evaluation of corrosion-resistant alloys for desalination applications
J.A. Carew, M. Abdel-Jawad and Y. Al-Wazzan 95(1994)53-74

Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material
C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl 97(1994)53-65

Evaporators made of solid duplex staintess steel. A new approach to reduced costs
J.O. Olsson and H.L. Groth 97(1994)67-76

Cost

Economics of multi-stage distillation in relation to conventional water supply
P.A. Mawer 2(1967)99-108

Effect of brine disposal cost on hyperfiltration plant optimization
W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr. 11(1972)91-112

Estimating short-run operating costs for a reverse osmosis desalting plant
C.R. Scherer and M.C. Chan 18(1976)241-258

Cost comparison of effectively produced desalted water by different processes in a developing country
M. Aswed and H. El-Hares
23(1977)285-290

The Bushehr 200,000 m^3/d desalination plant
M. Edalat, J. Entessari and H. Hamidi
26(1978)127-140

Means by which reverse osmosis desalting costs can be substantially reduced well before the year 2000
S. S. Kremen 30(1979)59-68

Reliability in estimating investment costs for large MSF-plants
H.E. Hoemig and B.R. Soeltner
30(1979)515-523

Desalting seawater and brackish water: A cost update
T.J. Larson and G. Leitner
30(1979)525-539

System options and costs in dairy ultrafiltration
P. Dejmek and H. Engwall
35(1980)397-400

Membrane processes for water supply and reuse — A question of energy consumption and cost
B. Ericsson 35(1980)401-421

Parametric study of cost factors in RO desalination (GKSS plate system)
J. Kaschemekat and K.W. Böddeker
36(1981)75-85

Analysis of water and power costs by various methods, based on Jeddah IV
G.F. Tusel and I. Kamal 38(1981)145-

Usability of low temperature waste heat for sea water desalination
R. Saari 39(1981)147-158

Ocean thermal energy and desalination
M. Rey and F. Lauro 39(1981)159-168

Present and future energy costs in Israel
J. Adar 40(1982)35-47

Cost of marginal energy chargeable to desalination in the Israel Electric Corp. generating system
M. Schaal, A. Schwartzman and A. Angel 40(1982)87-94

Effect of the energy crisis on water desalination and waste water recycling by ion exchange
Y. Egozy and E. Korngold
40(1982)181-189

The joint U.S.-Israel desalination project status report and the impact of rising energy costs on the program
A. Peled and J. Finke
40(1982)217-223

Distillation and reverse osmosis: Energy consumption and costs
N.M. Wade and M.R. Hornsby
40(1982)245-257

Cost of producing power and water in a combined power station and seawater desalination plant
R. Al-Assar, H.E. Hömig and K. Maurath 40(1982)311-316

Trends in the major cost components of MSF desalting and their implications for future thermal desalting plant
F.C. Wood 40(1982)327-337

Investment costs and energy consumption of the MSF/FBE in comparison with the MSF
J.P.P. Tholen 40(1982)341-345

Development of distillation processes responsive to energy cost escalations
H. H. Sephton 40(1982)375-384

The impact of desalinated water quality on energy costs
E. Gabbrielli 40(1982)391-394

Relationship between desalination processes and electric energy generation
L. Gasparini 40(1982)395-400

Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant
A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
44(1983)17-27

Desalting: Prospects for improvement in technology and reduction in costs
P. Glueckstern 44(1983)105-106

Desaltlng water costs using waste heat from power systems combined with the VTFE and vapor compression
S.J. Senatore 44(1983)129-135

Optimal water cost from solar-powered multieffect distillation
B.W. Tleimat 44(1983)153-165

Squeezing desalted water costs by proper choice of the desalting technology and water management
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem
44(1983)189-198

Application of the multi-effect process at high temperature for large seawater desalination plants
B. Franquelin, F. Murat and C. Temstet 45(1983)81-92

Computer simulations of multiple-effect FFE-VC systems for water desalination
G. Aly 45(1983)119-131

An assessment of different scale control methods
R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
47(1983)49-62

New aspects in solar powered seawater distillation
B. A. Crul and P. R. Bom
55(1985)55-68

MSF (multi stage flash) desalination plants: Copper alloy tubes, their economic aspects for overall cost reduction
V. Canetta and N.M. Valota
55(1985)307-317

Desalination and water reuse. Comparison of MSF and RO in dual purpose power and water plants
N. M. Wade, R. Heaton and D. G. Boulter 55(1985)373-386

A comparative study of the economics of RO and MSF in the Middle East
B. Ericsson and B. Hallmans
55(1985)441-459

Low energy cost desalination processes using hydrophobic membranes
G. C. Sarti, C. Gostoli and S. Matulli
56(1985)277-286

The effect of cell thickness and flow velocity on water cost in desalination by electrodialysis
K. Hattenbach and K. Kneifel
58(1986)33-41

Comparative cost analysis of nuclear versus oil-fired dual-purpose desalination plants
I. I. Kutbi and A. M. A. Ahmed
58(1986)43-54

Economic feasibility of the reverse osmosis process for seawater desalination
G. F. Leitner 63(1987)135-142

RO design optimization
N.M. Wade 64(1987)3-16

An economic comparison of 2 x1000 m^3/day desalination plants
H.W. Greig and J.W. Wearmouth
64(1987)17-50

Cost and economic analysis of Doha reverse osmosis plant (Kuwait)
S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah
64(1987)65-82

Energy consumptions and costs of different desalting systems
M. A. Darwish and N. M. Al-Najem
64(1987)83-96

Reverse osmosis seawater desalting plants built by the Minsterio de Obras Publicas y Urbanismo (Spain)
M. Torres and J.A. Vera
64(1987)443-458

Optimization for design of large RO seawater desalination plants
B. Ericsson, B. Hallmans and P. Vinberg 64(1987)459-489

Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs
R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes
65(1987)241-258

The city of Cape Coral demonstrates reverse osmosis is cost effective and operationally efficient
M. R. Ashton 65(1987)277-320

Low temperature reject heat utilization for desalination, economical and technical aspects
B. Hausherr 67(1987)215-226

Desalination costs in Australia: A survey of operating plants
B.R. Smith and E.A. Swinton
70(1988)3-15

Optimum selection of cogeneration systems for power and desalination
A.M. El-Nashar 71(1989)211-232

Water resources research needs in the Arabian Gulf area
L. Hamdan 72(1989)3-7

Water resources management in arid climates
J.G. Milliken 72(1989)173-184

Water conservation in arid and semi-arid regions
A.A. Akkad 72(1989)185-205

A modified system of subsidizing distilled water in Kuwait
F.Z. Elshibini and G.A. Al-Nakshabandi 72(1989)235-246

Technical aspects of reducing desalting water costs in distillation methods
M.A. Darwish and M. Abdel-Jawad
72(1989)381-393

The increasing demand for desalination
T.A. Dabbagh and A. Al-Saqabi
73(1989)3-26

Management and feasibility of reverse osmosis schemes for rural water supply in India
S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani 73(1989)37-46

The carrier-gas process — a new desalination and concentration technology
R. Larson, W. Albers, J. Beckman and S. Freeman 73(1989)119-137

Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait
A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
75(1989)341-361

Integrated production of power and water
M.A.-K. Al-Sofi 76(1989)89-105

Technoeconomics of power/desalting cogeneration plants in Kuwait - A preliminary study
A.A.J. Al-Zubaidi 76(1989)121-154

Optimization of dual-purpose steam power and MSF desalination plant
M.H. Ali El-Saie and Y.M.H. Ali El-Saie 76(1989)155-175

Optimum design for a hybrid desalting plant
I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem 76(1989)177-187

Costs of seawater desalination in real terms, 1979 through 1989, and projections for 1999
G.F. Leitner 76(1989)201-213

Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m^3/d and 3,000 m^3/d
G. Fosselard and K. Wangnick
79(1990)215-240

Parametric cost analysis study of seawater reverse osmosis systems design in Kuwait
A.A.J. Al-Zubaidi 76(1989)241-280

Technical and economical comparison between large capacity MSF and RO desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 76(1989)281-304

Technical aspects of reducing desalting water cost by distillation methods
M.A. Darwish and M. Abdel-Jawad
76(1989)305-322

Likelihood of significant cost reductions in desalination
N.M. Wade 78(1990)147-156

The effect of the recent energy cost increase on the relative water costs from RO and distillation plant
N.M. Wade 81(1991)3-18

Total water costs on a standard basis for three large, operating, S.W.R.O. plants
G.F. Leitner 81(1991)39-48

Cost estimates of large RO systems
P. Glueckstern 81(1991)49-56

Need and feasibility of nuclear desalination for low cost potable water production
A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
81(1991)505-523

Performance analysis of a solar desalting unit in South Tunisia
M.T. Chaibi, M.J. Safi and M. Hsairi
82(1991)197-205

Feasibility study of solar distillation plants in South Pacific countries
G.N. Tiwari 82(1991)233-241

Membrane filtration as a pre-treatment method
B. Ericsson and B. Hallmans 82(1991)249-266

Cost allocation of electricity and water in a cogeneration plant
A.M. El-Nashar 85(1992)197-212

Thermal assessment of a multiple effect boiling (MEB) desalination system
O.A. Hamed 86(1992)325-339

Desalination cost savings of VARI-RO™ pumping technology
W.D. Childs and A.E. Dabiri 87(1992)109-135

Baja California desalination project. Feasibility study report: Large scale dual purpose hybrid desalination plant
D.C. Nerell, J.A. Statton and G. Borsteins 88(1992)123-143

A proposal to organize membrane treatment capital costs
J.E. Potts 88(1992)321-329

Cogeneration desalination with reverse osmosis: A means of augmenting water supplies in Southern California
I. Kamal 88(1992)355-369

Optimizing and planning of seawater desalination
W.F.J.M. Nooijen and J.W. Wouters 89(1992)1-20

Advances in the methodologies of optimal thermal design
Y.M. El-Sayed 92(1993)79-101

Design and operating comparison of MSF and MED systems
O.J. Morin 93(1993)69-109

Retrofitting and repowering of coastal power stations to augment water supplies in Southern California
G.V. Sims and I. Kamal 94(1994)251-259

RAJJ RO plant operational costs optimization
M. Al-Arrayedh, K. Burashid and K. Almansoor 97(1994)235-251

Adaptation of the multi-effect distillation (MED) process to yield high purity distillate for utilities, refineries and chemical industry
A. Ophir and A. Gendel 98(1994)383-390

Desalination in Israel: Emerging key component in the regional water balance formula
A. Livnat 99(1994)275-297

Energy requirement of water production in dual-purpose plants
G.P. Maheshwari, M. Al-Ramadhan and M. Al-Abdulhadi 101(1995)133-140

Membrane softening versus lime softening in Florida: A cost comparison update
R.A. Bergman 102(1995)11-24

Implementation of technology assessment investment techniques on water desalination
S.M. Al-Mazidi 103(1995)39-47

VARI-RO™ "low energy" desalting for the San Diego region
W.D. Childs and A.E. Dabiri 103(1995)49-58

Silica scale inhibition and colloidal silica dispersion for reverse osmosis systems
P.F. Weng 103(1995)59-67

Pilot runs at the Santa Anna Watershed Project Authority using Asahi electrodialysis
P.B. Chebi and T. Hamano 103(1995)69-78

Industrial use of fresh water vis-a-vis reclaimed municipal wastewater in Madras, India
C.A. Sastry and S. Sundaramoorthy 106(1996)443-448

Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B
C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan 108(1996)37-42

Energy saving and desalination of water
A.A. Mesa, C.M. Gómez and R.U. Azpitarte 108(1996)43-50

Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants
I. Kamal and G.V. Sims 109(1997)1-13

Energy consumptions and costs with a multi-stage flashing (MSF) desalting system
M.A. Darwish, F.A. Yousef and N.M. Al-Najem 109(1997)285-302

Cotton

Reclamation and reuse of process water from reactive dyeing of cotton
H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen 106(1996)195-203

Countercurrent

Countercurrent flow osmotic processes for the production of solutions having a high osmotic pressure
S. Loeb and M.R. Bloch 13(1973)207-215

Osmotic concentration of salt solutions in a countercurrent multiplier system
N. Chlubek 27(1978)137-141

Counterions

Advances in the electrochemistry of permselective membranes
D. Kertész, F. de Körösy and E. Zeigerson 2(1967)161-169

Interaction of permselective membranes and their counter-ions
F. De Körösy and E. Zeigerson 5(1968)185-199

Counterwashers

Analysis of counterwashers for freeze distillation desalination
J. Schwartz and R.F. Probstein 4(1968)5-29

Experimental study of slurry separators for use in desalination
J. Shwartz and R.F. Probstein 6(1969)239-266

Analytical solution of a sink model of a two dimensional counterwasher
N.H. Kemp 12(1973)127-139

Courtraulds desalination process

The Courtraulds desalination process
D.C.F. Pratt 42(1982)37-45

Critical heat transfer

Experimental investigation of the dryout at low mass velocities and pressures
Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
108(1996)375-379

Crossflow condensers

Using a homogeneous model in simulation of sea water desalination condenser
P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
65(1987)123-138

Crossflow filtration

Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins
R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel 79(1990)217-231

Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse
G.T. Seo, Y. Suzuki and S. Ohgaki
106(1996)39-45

Domestic wastewater reuse using a submerged membrane bioreactor
H. Kishino, H. Ishida, H. Iwabu and I. Nakano 106(1996)115-119

Crossflow microfiltration

The crossflow piston bed
H.F. Wiegandt, R.L. Von Berg and P.R. Patel 25(1978)303-324

The concentration of suspensions by means of crossflow-microfiltration
K. Schneider and W. Klein
41(1982)263-275

Biotechnical applications of a pleated crossflow microfiltration module
G. B. Tanny, D. Hauk and U. Merin
41(1982)299-312

An improved MSF evaporator configuration
D. L. Moen and D. Cane
45(1983)25-34

Fluid mechanics and cross-flow filtration: Some thoughts
G. Belfort and N. Nagata
53(1985)57-79

Factors affecting flux in crossflow filtration
R.J. Baker, A.G. Fane, C.J.D. Fell and B.H. Yoo 53(1985)81-93

Applications of crossflow membrane technology in the fishing industry
K.A. Almås 53(1985)167-180

Some examples of the use of crossflow filtration in the downstream processing in a biochemical industry
A. Eriksson 53(1985)259-263

Crossflow microfiltration in the process industry
T.J. van Gassel and S. Ripperger
53(1985)373-387

A mathematical model of steady-state cross-flow microfiltration in a woven hose support
J. W. Hunt, K. Treffry-Goatley, R. L. C. Flemmer, J. D. Raal and C. A. Buckley 61(1987)187-200

Membrane development for seawater desalination
E. Drioli 63(1987)57-69

The unsteady-state modelling of cross-flow microfiltration
J. W. Hunt, C. J. Brouckaert, J. D. Raal, K. Treffry-Goatley and C. A. Buckley 64(1987)431-442

The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water
A.E. Simpson and C.A. Buckley
67(1987)409-429

The cross-flow microfiltration of problematic surface and river waters to produce potable water
K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
67(1987)439-453

Microfiltration of protein solutions: Effect of fouling on rejection
P. Heinemann, J.A. Howell and R.A. Bryant 68(1988)243-250

Newer applications for crossflow membrane filtration
J.L. Short 70(1988)341-352

Predicted performance profiles along a long-tube cross-flow microfiltration system
V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal
71(1989)247-264

Application of cross-flow electro-microfiltration in chromium wastewater treatment
C. Visvanathan, R. Ben Aim and S. Vigneswaran 71(1989)265-276

Microfiltration membranes, cross-flow transport mechanisms and fouling studies
V. Gekas and B. Hallström
77(1990)195-218

Harvest of microbial suspensions by microfiltration
B. Reismeier, K.H. Kroner and M.-R. Kula 77(1990)219-233

Cross-flow microfiltration in food industry. State of the art
H.C. Van Der Horst and J.H. Hanemaaijer 77(1990)235-258

Colloidal fouling of microfiltration membranes during the treatment of aqueous feed streams
R.J. Wakeman and E.S. Tarleton
83(1991)35-52

Use of MnO_2 as a dynamic membrane with crossflow microfiltration: Slow membraning technique
M.H. Al-Malack and G.K. Anderson
109(1997)15-24

Crosslinking

Hyperfiltration through crosslinked monolayers II
S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring 46(1983)369-378

Crosslinked PVA-PS thin-film composite membrane for reverse osmosis
She Jian and Shen Xiao Ming
62(1987)395-403

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-*alt*-maleic anhydride)
E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
94(1993)37-54

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate
E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)115-132

Crystal growth

Morphology of inhibitor-treated $CaCO_3$ precipitate
G. Wilken 33(1980)201-210

Precipitation equilibrium during evaporation of water containing high dissolved salts
J. S. Gill and R. G. Varsanik 60(1986)1-8

Crystallization

Assessment of crystalliser designs for a butane freeze desalination process
M. Landau and A. Martindale 3(1967)318-329

The state of the crystallization processes for desalting saline waters
A.J. Barduhn 5(1968)173-184

The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers
S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim 17(1975)3-16

Effect of crystallinity and swelling on the permeability and selectivity of polymer membranes
J.G.A. Bitter 51(1984)19-35

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Industrial water production by utilization of a reverse osmosis and an evaporation plant
R. Borsani, M. Fazio and B. Ferrando 108(1996)231-245

Currents (leakage, distribution etc.)

Leakage currents in electrodialytic desalting and brine production
W.G.B. Mandersloot and R.E. Hicks 1(1966)178-193

Characterization of ion-exchange membranes by polarization curves
W. Kooistra 2(1967)139-147

Concentration polarization effect in ion exchange membrane electrodialysis
T. Yamabe and M. Seno 2(1967)148-153

The structural polarization in some ion exchange membranes during continued transfer of direct current
C. Forgacs 7(1969)111-121

The mapping of Faradic efficiencies in large electrodialysis units
C. Forgacs 10(1972)287-291

Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off
M. Metayer, C. Bourdillon and E. Selegny 13(1973)129-146

Determination of transport properties and limiting current densities of ion exchange membrane stacks
K. Hattenbach and K. Kneifel 21(1977)317-326

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCI and HCI solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Quality control problems in copper alloy tubes manufacturing
G. Gusmano and G. Dall'Omo 38(1981)281-293

Edge effects and orientation effects in electrodialysis
Q. Li, Y. Fang and M.E. Green 41(1982)47-55

The calculation of limiting current density of electrodialysis under the influence of water quality and temperature
Song Xu-Tong and Chen Guang 46(1983)263-274

Characterization of surface change properties of synthetic microfiltration membranes by means of a streaming current method
H. Zhang and U. Werner 79(1990)271-281

Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water
H.I. Al-Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din 109(1997)25-37

Cyanide

Treatment of concentrated cyanide wastewater
M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka 98(1994)345-352

Dairy industry

Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids
J. Hiddink, D. Kloosterboer and S. Bruin 35(1980)149-167

Membrane processes in the dairy industry. State of the art
R. de Boer and J. Hiddink 35(1980)169-192

Production and properties of yoghurt and ymer made from ultrafiltrated milk
G. Mogensen 35(1980)213-222

System options and costs in dairy ultrafiltration
P. Dejmek and H. Engwall 35(1980)397-400

Food and dairy applications: The state of the art
V. Gekas, B. Hallström and G. Trägårdh 53(1985)95-127

Use of membranes in the manufacture of hard and semi hard cheeses
D.N. Ryder 53(1985)129-133

Predicting flux in UF of milk
P. Dejmek 53(1985)135-142

Microfiltration in whey processing
J.H. Hanemaaijer 53(1985)143-155

New composite tubular membranes for ultrafiltration
W. Doyen, R. Leysen, J. Mottar and G. Waes 79(1990)163-179

Dam waters

Trace element removal from ash dam waters by nanofiltration and diffusion dialysis
R. Simons 89(1993)325-341

Damage detection

Enhancement of availability through the early detection of damage in desalination plants
H.-D. Schulze, U. Rohlfs and K. Thies 55(1985)297-305

Data acquisition

Description and mathematical model of a large MSF desalination plant in SCADA configuration
D. M. Khamis Fareigh and S. Arazzini 55(1985)91-106

Use of microprocessors for control, data acquisition and on line performance evaluation in a reverse osmosis plant
P. Glueckstern, M. Wilf, J. Etgar and J. Ricklis 55(1985)469-480

A flexible data acquisition and monitoring system
A.H. Al-Anbuky and K.H. Danial 92(1993)271-280

Data monitoring

A microprocessor-based data monitoring and control system for a continuous ion exchange plant
E. W. Randall 49(1984)169-184

Data processing programs

Seawater desalination by reverse osmosis
K. Marquardt, R. Nagel and H. Seeger 46(1983)135-143

Deaeration

Control in multiple effect evaporator plants
F.C. Standiford 59(1986)263-292

An update on the mass transfer of counterflow, packed deaerators containing pall-ring packing
T.J. Rabas, S. Inoue and A. Shimizu 66(1987)91-107

The reuse of reactive dye liquors using charged ultrafiltration membrane technology
A. Erswell, C.J. Brouckaert and C.A. Buckley 70(1988)157-167

Dealkalization

Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants
A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli 16(1975)135-149

Debris prevention

Better MSF plant performance by avoiding tube fouling and debris
H. Boehmer and F.J. Glaze 55(1985)429-439

Debris separators

Debris separators and filters for different desalination systems
H. Boehmer and F.J. Glaze 55(1985)559-569

Decalcification

High temperature distillation process with sea water feed decalcification pretreatment
D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri 40(1982)347-355

Decarbonation

Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants
T. Sawa, K. Izumi and S. Takahashi 19(1976)369-380

The pH control in the large-scale MSF plants by using drop structure type decarbonator
T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome 22(1977)415-423

Dechlorination

Reverse osmosis TFC magnum elements for chlorinated/dechlorinated feedwater processing
W.G. Light, H.C. Chu and C.N. Tran 64(1987)411-421

Decision analysis

Multiattribute decision analysis of desalination plant engineering management options with applications to Saudi Arabia
A.F. Abdul-Fattah and A.A. Husseiny 28(1979)253-282

Selection of desalination technology, a decision analysis approach and a case study
A.A. Bushnak, A.F. Abdul-Fattah, A.A. Husseiny and A.M. El-Nashar 30(1979)483-498

Engineering management of desalination plants in Saudi Arabia using fuzzy decision analysis
A.F. Abdul-Fattah 37(1981)343-350

Handling of fuzzy decisions in the engineering management of large desalination plants
A-R. F. Abdul-Fattah 39(1981)489-490

Decolorization

The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping
A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley 67(1987)455-465

Defluoridation

Defluoridation during desalination of brackish water by electrodialysis
S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan 71(1989)301-312

Degradation

Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack
J. C. Watters, E. Klein, M. Fleischman, J. S. Roberts and B. Hall 60(1986)93-110

Degreasing agents

The influence of degreasing agents used at car washes on the performance of ultrafiltration membranes
C. Jönsson and A.-S. Jönsson 100(1995)115-123

Dehumidification

Humidity water vapour collection by absorption cooling machines
S.E. Aly 73(1989)139-165

Prospective of two small water producing units
A.A. Madani and G.M. Zaki 73(1989)167-180

Dehumidification of atmospheric air as a potential source of fresh water in the UAE
A. Khalil 93(1993)587-596

Dehydration

Dehydration of multicomponent organic systems by a reverse osmosis pervaporation-hybrid process module-, process design and economics
R. Rautenbach, C. Herion and M. Franke 70(1988)445-453

Dehydration of alcohol fuels by pervaporation
L. Kraetz 70(1988)481-485

delete

Test of the desalting flash pilot plant with recirculating seed
V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo 5(1968)34-39

Practical considerations in desalination and energy development and utilization (.SM-113/70) .
J. T. Ramey 5 suppl.(1969)3-16

The United Kingdom approach to desalination and nuclear power (SM-l 13 /71)
H. Kronberger 5 suppl.(1969)17-23

United Kingdom desalination research and development program (SM-113/50)
1. Kronberger 5 suppl.(1969)33-40

Fifteen years of progress - A review of the United States Desalting Program (SM-113/53) .
M.N. Edwards 5 suppl.(1969)41-49

Role of nuclear energy in desalination - A review of the United States Atomic Energy Commission' s desalination development program, problem areas, and potential (M-113/fi)
W.A. Williams, Jr., J.O. Roberts and R.O. McFarren 5 suppl.(1969)51-61

Technical aspects of desalination in Japan - present and future (SM-113/57)
S. Ishiaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna 5 suppl.(1969)63-73

Some aspects of multistage-flash-distillation plant operation and construction (SM-l 13 /43) .
W.R.Querns 5 suppl.(1969)77-91

Combination of a sea-water flash-distillation plant with a nuclear plant arising from experience gained with conventional installations (SM-113 /8)
H. Laban and W. Hohenhinnebusch 5 suppl.(1969)93-109

Dessalement de l'eau de mer et production d'energie electrique: résultats d'exploitation des installations de l'Italsider à Tarente (SM- 113 /3)
G. Carolei, C. Franzosi and M. Jemma 5 suppl.(1969)111-125

Construction and initial operation of a test module for a 50-MGD desalination plant (SM 113/54)
W.A. Gardner 5 suppl.(1969)127-143

United Nations survey of desalination-plant operation (SM-113/69)
United Nations (Presented by P. A. Mawer) 5 suppl.(1969)145-165

Behavior of a freely draining rectangular hydraulic piston wash separator
F.O. Mixon 7(1970)229-243

Regeneration of weak base ion exchange resins
W. Höll and R. Kirch 26(1978)153-162

Icebergs used and theory with suggestions for the future
J.M. Day 29(1979)25-40

Application of regular solution theory to organic solute rejection by reverse osmosis
Y. Kurokawa, T. Tsuchiya and N. Yui 29(1979)233-238

Reverse running centrifugal pumps as hydraulic power recovery turbines for seawater reverse osmosis systems
W. A. Raja and R. W. Piazza 38(1981)123-134

Design of high efficiency single and dual purpose plants with gas turbines
G. F. Tusel and I. Kamal 38(1981)135-144

EDS: sealed cell electrodialysis
O. Kedem, J. Cohen, A. Warshawsky and N. Kahana 46(1983)291-299

The problem of "red waters": A new approach to its solution
A.M. Shams El Din 60(1986)75-88

Feasibility prediction of potable water production using waste heat from refuse incinerator hooked up at Stirling cycling machine
S. Abdalla and S.H. Yacoub 64(1987)491-500

Cogeneration power-desalination plants
M. A. Darwish 69(1988)27-46

Methodology for estimating saving of primary energy with membrane operations in industrial processes
R. Molinari, R. Gagliardi and E. Drioli 100(1995)125-137

Demineralization

Demineralization by electrodialysis using ampholytic ion-conducting spacers
K.P. Govindan and P.K. Narayanan 38(1981)517-527

Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material
W. Höll and B. Kiehling 48(1983)253-266

Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material
W. Höll and B. Kiehling 48(1983)253-266

Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature
R. Zannoni, I. Resini and R. Lucenti 66(1987)109-118

Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant
K. Hamby and James Chen 76(1989)3-14

Choosing the electrodialyzer design and hydraulic modes for demineralization of dilute solutions
N.D. Pismenskaya, E.V. Laktionov, V.V. Nikonenko and V.I. Zabolotsky 108(1996)149-152

Electrodialysis technology for deep demineralization of surface and ground water
V.I. Zabolotsky, V.V. Nikonenko, N.D. Pismenskaya and A.G. Istoshin 108(1996)179-181

Small-waste technology of processing industrial waste water on the basis of thermal demineralization
A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina 108(1996)361-364

Demulsification

An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage
Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun 62(1987)323-328

Density

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi
2(1967)271-278

Physical properties of sea water solutions: Density
J.D. Isdale and R. Morris
10(1972)329-339

Prediction of the density and viscosity of seawater, its concentrates and other multicomponent solutions using the Tammann-Tait-Gibson (TTG) model
J. V. Leyendekkers 29(1979)263-274

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to horizontal flows
D. Pnueli and Y. Zvirin
33(1980)163-183

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows
M. Bouscher, D. Pnueli and Y. Zvirin
36(1981)307-333

Deposited layers

Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions
P. Gatenholm, C.J.D. Fell and A.G. Fane 70(1988)363-378

Controlled deposit formation to influence the retention of solutes in reverse osmosis and ultrafiltration
H.D. Obermeyer, U. Kulozik and H.G. Kessler 90(1993)161-172

Effect of structure controlled deposited layers on the retention of flavour compounds in reverse osmosis
C. Schwab, U. Kulozik and H.G. Kessler 90(1993)173-182

DESAL process

Further studies on the weak electrolyte ion exchange resin desalination process (DESAL Process)
R. Kunin 4(1968)38-44

A new ion exchange approach to the treatment of brackish waters
B. Vassiliou and P. Sturla
5(1968)40-48

Desalination

Design of reverse osmosis systems for commercial seawater desalination
D.C. Bullock 19(1976)397-404

Application of membrane processes
H.B. Sliger and R. Quinn
19(1976)573-586

The influence of pollution on desalination
S. Khorfan 93(1993)443

Modelling the cross flow spirally wound electrodialysis (SpED) process
T. Wen, G.S. Solt and Y.F. Sun
103(1995)165-176

Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination
F.H. Butt, F. Rahman and U. Baduruthamal 103(1995)189-198

Desalination and Membrane Separation Research

The Interagency Consortium for Desalination and Membrane Separation Research
T.H. Bagwell, Jr. and M.K. Price
99(1994)195-199

Desalination experience

The Virgin Islands desalination experience
A. Bruno-Vega and K.S. Thomas
98(1994)443-450

Desalination in India — Experience and future prospects
C.N. Raghupathi and T. Swaminathan
98(1994)495-504

Desalination, history

History, experience and economics of water production in Kuwait
M.H. Ali El-Saie 1(1966)77-95

A brief illustrated history of desalination
J.D. Birkett 50(1984)17-52

A history of desalting water in the Virgin Islands
O.K. Buros 50(1984)87-101

The development of desalination in Australia
B.A. Bolto 50(1984)103-114

Desalination, perspectives

Engineering developments in the OSW program
J.A. Hunter 3(1967)384-391

The U.S. desalting program
J.A. Hunter and W.F. Savage
6(1969)285-286

French nuclear desalting programme *(in French)*
P. Balligand 6(1969)287-291

Desalination in Australia: Operational experience and future prospects
L.G. Kemeny 18(1976)321-344

State-of-the-art of freezing processes. Their potential and future
W.E. Johnson 19(1976)349-358

Future role of desalting for water quality improvement — Colorado River Basin, USA
G.G. Stamm and M.B. Bessler
20(1977)1-18

Desalination experiences and its prospects in Mexico
Technical Staff of D.I.G.A.A.S.
23(1977)383-388

New directions in the United States Federal desalting program
G.D. Cobb 25(1978)325-328

Five demos is a good start
P.J. Schroeder 30(1979)5-13

The future of reverse osmosis in water desalination
J.K. Beasley 30(1979)69-74

Some thoughts on distillation processes
T. Kinlin 30(1979)75

Water desalination — A perspective for membrane processes in India
D.J. Mehta, A.V. Rao and K.P. Govindan 30(1979)325-335

For want of a nail
R. S. Silver 31(1979)39-44

The changing face of desalination. A consulting engineer's viewpoint
F.C. Wood 42(1982)17-25

Desalting: Prospects for improvement in technology and reduction in costs
P. Glueckstern 44(1983)105-106

Desalination in the year 2000 — Technoeconomic aspects
O.P. Kharbanda 67(1987)579-588

Desalination — The distant future
R.S. Silver 68(1988)1-10

Perspective and challenges for desalination
L. Awerbuch 99(1994)191-194

The desalination choice: Planned water and power security or decisions by calamity?
H.K. Qashu 99(1994)211-232

Desalination? Decision making
W.F. Davenport 99(1994)245-255

Desalination plants

Prediction of large desalting plant availability factor
N. Arad, S.F. Mulford and J.R. Wilson 3(1967)378-383

Desalination plant program to solve shortage of water in the southern Italian Islands (Sicily)
G. Consiglio and M. Creton 45(1983)209-220

Enhancement of availability through the early detection of damage in desalination plants
H.-D. Schulze, U. Rohlfs and K. Thies 55(1985)297-305

Enhancement of the availability of desalination plants by means of in service inspections
K. Thies, U. Rohlfs and H.-D. Schulze 55(1985)387-396

Small on-shore desalination plants
B. Teislev 55(1985)589-594

On the calculation of stream concentrations in reverse osmosis processes
D. Sambrailo and B. Kunst 60(1986)111-116

Hot water resistant coatings for the inside protection of desalination plants
N. Grafte and E. Roost 66(1987)223-234

Pitting corrosion behaviour of aluminium in water desalination plants
M.G.A. Khedr, M.M.H. Badran and A.A. El-Azhari 72(1989)351-366

Desalination technology in the Canary Islands, 1990
J.M. Veza, A. Gómez Gotor and J. Pérez Castillo 85(1992)147-159

Yuma Desalting Plant. Membrane degradation during test operations
A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody 88(1992)33-49

The use of a qualitative method of control for some process parameters of distillation desalting plants
V.V.Barinov, V.L. Podbereznji, I.D. Mogilner and V.F. Barinov 88(1992)179-186

Floating nuclear desalination plant AFWS-40
V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov 89(1992)21-32

Artificial neural networks and possible applications to desalination
M.E. El-Hawary 92(1993)125-147

Improvement of the design and operation of desalination plants by computer modelling and simulation
M.T. Rahbar 92(1993)253-269

Total quality management and desalination plants: A practical application for result-based management methods
H. Griepentrog 93(1993)373-385

Conceptual specification for improved automation and total process care in large-scale desalination plants of the future
D.M.K. Al-Gobaisi 95(1994)287-297

Scale formation and fouling problems and their predicted reflection on the performance of desalination plants in Saudi Arabia
M. Al-Ahmad and F.A. Aleem 96(1994)409-419

Storage and retrieval of corrosion data of desalination plant owners
A. Hassan, E.A. Al-Sum and S. Aziz 97(1994)131-146

Failure evaluation of desalination plants — Some case studies
A.U. Malik, T.L. Prakash and I. Andijani 105(1996)283-295

Desalination processes

Towards improved automation for desalination processes. Part I: Advanced control
D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani 97(1994)469-506

Towards improved automation for desalination processes. Part II: Intelligent control
G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz 97(1994)507-528

Desalination research

Desalination research
W.S. Gillam and W.H. McCoy 2(1967)13-20

Status of desalination research and technology in the Middle East
S. Galal and A.A. Husseiny 20(1977)217-225

Investigation on sea water desalination plants in Spain
S. Muro, R. Sterner and J. Ugarte 28(1979)109-116

Significant developments in membrane desalination — 1979
M.E. Mattson 28(1979)207-223

Saudi Arabian-U.S. joint agreement for technical cooperation in desalination
I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan 30(1979)247-157

Desalination research - Current needs and approaches - A U.S. perspective
L. Herbranson and S.H. Suemoto 96(1994)239-248

Desalination symposium

Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C.
Z. Pelled and J. Gaussens 1(1966)5-12

Washington and after Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C.
Z. Pelled 1(1966)101-106

Review of the first conference on water desalination in India, held November 16-18, 1967 at the Central Salt and Marine Chemicals Research Institute, Bhavnagar
S.D. Gomkale 4(1968)131-134

Desalination at the crossroads
M.H. Ali El-Saie 78(1990)305-311

Desalination technology

Status of reverse osmosis desalination technology
K.C. Channabasappa 17(1975)31-67

Desalination in Australia: Operational experience and future prospects
L.G. Kemeny 18(1976)321-344

Present status of reverse osmosis in Japan
H. Ohya 19(1976)411-419

Status of desalination research and technology in the Middle East
S. Galal and A.A. Husseiny 20(1977)217-225

Development of desalination technology using warm discharge water
O. Moberg 22(1977)141-150

Investigation on sea water desalination plants in Spain
S. Muro, R. Sterner and J. Ugarte 28(1979)109-116

Significant developments in membrane desalination — 1979
M.E. Mattson 28(1979)207-223

Comparative economics of current and advanced desalting systems
P. Glueckstern 30(1979)223-234

Selection of desalination technology, a decision analysis approach and a case study
A.A. Bushnak, A.F. Abdul-Fattah, A.A. Husseiny and A.M. El-Nashar 30(1979)483-498

Comparative energy requirements and economics of desalting processes based on current and advanced technology
P. Glueckstern 40(1982)63-74

Recent advances in reverse osmosis and electrodialysis membrane desalting technology
M. E. Mattson and M. Lew 41(1982)1-24

Technological and environmental aspects of desalination
R.S. Silver 42(1982)1-9

Desalting: Prospects for improvement in technology and reduction in costs
P. Glueckstern 44(1983)105-106

Squeezing desalted water costs by proper choice of the desalting technology and water management
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem 44(1983)189-198

Humidity water vapour collection by absorption cooling machines
S.E. Aly 73(1989)139-165

Large-scale sea-water distillation for Southern California
R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr. and H.H. Sephton 87(1992)69-83

Power and water co-production feasibility study of Florida power and light power plants
M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters 88(1992)267-277

New and developed material and chemicals in desalination technology
M. Morsi Abou El Ela 93(1993)529-536

Desalination using renewable energy sources
A. Hanafi 97(1994)339-352

The US Bureau of Reclamation's research programs in water treatment and desalting technologies
S. Hightower, K. Price and L. Henthorne 99(1994)201-210

Space-age integrated exploration and treatment of renewable regional sources of pristine groundwater in fractured rock "megawatersheds"
R.A. Bisson 99(1994)257-273

Desalination, training in

An undergraduate program in desalination
R. Bakish and W. Arthur 23(1977)291-298

Experiences from continuing education training in desalination
R. Bakish, E. Catanzaro and W. Arthur 30(1979)443-447

Twelve years of postgraduate education in desalination
W.T. Hanbury, W.S. McCartney, J. Cunningham and T. Hodgkiess 30(1979)449-459

Desalination, trends in

Desalination research
W.S. Gillam and W.H. McCoy 2(1967)13-20

Further progress in electrodialysis
G.S. Solt 2(1967)21-24

Nuclear energy for desalination
D.B. Brice and D.S. Briggs 2(1967)89-98

Cost of water and desalination of sea water: Characteristics of supply and demand *(in French)*
F. Dutheil and J. Gaussens 2(1967)234-242

Vacuum freezing vapor compression (Zarchin) process. Present status and future trends
M. Pachter and A. Barak 2(1967)358-367

Present technological status of the multi-stage flash type evaporation process
I. Vilentchuk 4(1968)220-235

The state of the crystallization processes for desalting saline waters
A.J. Barduhn 5(1968)173-184

The U.S. desalting program
J.A. Hunter and W.F. Savage 6(1969)285-286

French nuclear desalting programme *(in French)*
P. Balligand 6(1969)287-291

Recent developments on the reverse osmosis process for desalination
W.S. Gillam and H.E. Podall 9(1971)201-211

Current status of the desalting program in the United States of America
J.W. O'Meara 14(1974)239-247

Near East desalting — The conservative approach
Y.K. Shuhaibar 17(1975)69-73

Need for new and better membranes
K.C. Channabasappa 18(1976)15-42

State-of-the-art of freezing processes. Their potential and future
W.E. Johnson 19(1976)349-358

Present status of reverse osmosis in Japan
H. Ohya 19(1976)411-419

Desalting's role in future water resource management
P.K. Allen 19(1976)483-490

Desalination activities in Spain *(in Spanish)*
E. Baeza 20(1977)95-104

Desalination activities in Italy
A.C. di Pinto and J.L. Hooper 20(1977)105-117

Status of desalination research and technology in the Middle East
S. Galal and A.A. Husseiny 20(1977)217-225

Reverse osmosis relevant to India
D.J. Mehta, V.P. Pandya and A.V. Rao 20(1977)403-413

Desalination and the development of less developed countries. Activities of the Federal Republic of Germany
H.K.J. Hauser 20(1977)425

Use of desalination by developing countries
F. Troyano, P. Mir and M. Torres 20(1977)427-438

Water requirements and desalting in the United States of America
M.V. Hughes, Jr. 21(1977)301-315

The development of seawater desalination by reverse osmosis process in Japan
Y. Kunisada, Y. Murayama and M. Hirai 22(1977)243-252

Desalination experiences and its prospects in Mexico
Technical Staff of D.I.G.A.A.S. 23(1977)383-388

State of desalination projects in Iran
M. Emami, G.H. Jalali Ghajar and N. Kaynia 23(1977)465-470

Solar applications in desalting
E. Delyannis and A. Delyannis 23(1977)541-547

The Joint United States/Israel desalination project: Progress report
A.Z. Barak, L. Awerbuch and R.H. Horowitz 23(1977)553-562

Desalting in Saudi Arabia - demand, production, management, associated power generation and future plans
A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri 25(1978)9-44

New directions in the United States Federal desalting program
G.D. Cobb 25(1978)325-328

Significant developments in membrane desalination — 1979
M.E. Mattson 28(1979)207-223

Potential future roles for large-scale demineralization in South Florida
J.R. Maloy 30(1979)39-47

Electrodialysis on the American continent
A. L. Goldstein 30(1979)49-58

Some thoughts on the French water desalination program (in French)
J. J. Libert and J. C. Viche 30(1979)95-100

Trends in Libyan desalination and water reuse policy
H. El-Hares and M. Aswed 30(1979)163-173

For want of a nail
R. S. Silver 31(1979)39-44

A review of freeze-desalting processes and their prospects
B. Cox 31(1979)413

The first decade of commercial reverse osmosis desalting 1968-1978
P.V. Ferguson 32(1980)5-12

The Caribbean, the other area of concentration of desalination plants
R. Bakish 39(1981)323-334

Desalination in Mexico
R. Manjarrez 39(1981)335

Activities in Spain
F. Cantera, J. Guzman and R. Sterner 39(1981)385-396

Desalination in Australia — Past and future
G.G. Fenton and J.P. Gerofi 39(1981)399-411

Water resources of Israel and the need for desalination
M. Ben Meir 40(1982)15-18

Trends in the application of solar energy to water desalination
R. A. Brosh 40(1982)95-102

The changing face of desalination. A consulting engineer's viewpoint
F.C. Wood 42(1982)17-25

Desalination by ED and EDR. State-of-the-art in 1981
W.E. Katz 42(1982)129-139

Recent solar distillation developments
A. Delyannis and E. Delyannis 45(1983)361-369

Desalination/concentration balance

Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis
G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov 46(1983)171-177

Desert development

Optimum conditions for a solar still and its use for a greenhouse using the nutrient film technique
S.M. El-Haggar and A.A. Awn 94(1993)55-68

Design criteria

Survey of long time behavior and costs of industrial fluidized bed heat exchangers
R. Rautenbach and T. Katz 108(1996)335-344

Wind energy exploitation for reverse osmosis desalination plants
C.T. Kiranoudis, N.G. Voros and Z.B. Maroulis 109(1997)195-209

Design equations

Design equations for a new set up of sluice gates to stabilize inter-scale brine flow
M. M. Hilal and M. A. Marwan 55(1985)139-144

Design optimization

Analysis of the optimization of the design of flash evaporators
J.R. Wolberg 2(1967)299-307

Optimal design of desalination systems
L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang 3(1967)225-236

The optimal design of multi-stage flash evaporators by dynamic programming
S. Itahara and L.I. Stiel 4(1968)248-257

Factors influencing optimum seawater reverse osmosis system designs
K. A. Klinko, W. G. Light and C. M. Cummings 54(1985)3-18

Seawater reverse osmosis at high pressures
C. T. Sackinger 54(1985)19-26

Design of waste heat boiler for desalination-gas turbine co-generation plant
A. M. Mubarak and H. T. El-Dessouky 55(1985)145-168

An improved MSF condenser design
T.J. Rabas 55(1985)169-183

Design and economics of RO seawater desalination
A. Malek, M.N.A. Hawlader and J.C. Ho 105(1996)245-261

Design parameters

Optimizing design and cost of seawater reverse osmosis systems
J.C. van Dijk, P.J. de Moel and H.A. van den Berkmortel 52(1984)57-73

Economics of MSF plants: Influence of variations in the design parameters and use of different construction materials
S. Arazzini, R. Borsani, G. Migliorini and U. Zuboli 52(1985)97-103

Low-temperature vapour compression and multi-effect distillation of seawater. Effects of design on operation and economics
R. Matz and Z. Zimerman 52(1985)201-216

Rational bases for designing vapour compression water desalination systems
M.M. Elsayed 58(1986)213-225

Optimization for design of large RO seawater desalination plants
B. Ericsson, B. Hallmans and P. Vinberg 64(1987)459-489

Design simulation

An optimal design of a solar desalination plant
A.M. El-Nashar 93(1993)597-614

Desulfation process

An advanced method for sea water chemical treatment in MSFD plants
A. De Maio, G. Odone, E. Palmisano and R. Zannoni 31(1979)321-331

Results of four years of operation at high temperature (150°C) of Bari's desalination plant
A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori 45(1983)197-207

Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants
R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori 47(1983)93-102

Reverse osmosis desulphation pretreatment: new prototype application
R. Zannoni, F. Fantini, M. Haruni, T. Abu Ihweig and G. Boari 54(1985)333-342

Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station
R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari 66(1987)431-442

Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar
G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig 66(1987)443-454

Desalination and concentration of flue gas scrubber effluents using the electrodialysis reversal process
D. Elyanow and J. Mahoney 67(1987)283-298

Sea water desulphation pretreatment for a 14400 m^3/day MSF desalination unit at Gela Petrochemical Plant
R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice 82(1991)337-349

Detergent recycling

Recycling of detergents after ultrafiltration of cleaning solutions
H. Paul 41(1982)313-325

Two-phase ultrafiltration as an economical unit operation for recycling of detergents
H. Paul 47(1983)293-304

Deuterium concentration

Concentration of heavy water in seawater distillation process
T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa 25(1978)61-69

Developing countries

Desalination and the development of less developed countries. Activities of the Federal Republic of Germany
H.K.J. Hauser 20(1977)425

Use of desalination by developing countries
F. Troyano, P. Mir and M. Torres 20(1977)427-438

Dew collection

Large scale dew collection as a source of fresh water supply
A. K. Rajvanshi 36(1981)299-306

Dextran

Boundary layer phenomena during ultrafiltration of dextran and whey protein solutions
G. Jonsson 51(1984)61-77

Osmotic pressure of dextran T10 solutions
W. Pusch 68(1988)69-73

Diafiltration

High rate ultrafiltration of soymilk
S.E. Berry and M.H. Nguyen 70(1988)169-176

Optimizing process time for ultrafiltration and diafiltration
B. Ali Asbi and M. Cheryan 86(1992)49-62

Effects of surface force interactions on an NF/UF membrane
B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson 90(1993)107-118

Dialysis

Physical aspects governing the design of hollow fiber modules
J. J. Hermans 26(1978)45-62

Alcohol reduction in beer by means of dialysis
H. Moonen and H. J. Niefind 41(1982)327-335

Transfer of H_2SO_4, Na_2SO_4 and $ZNSO_4$ by dialysis through an anion exchange membrane
A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach 101(1995)39 -46

Dibenzylidene sorbitol

Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane
T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani 22(1977)253-262

Dichloroethane-trichloro ethylene mixture

Tracer diffusion coefficients in water-tri-*n* -butylphosphate solutions
G. Michaeli and O. Kedem 8(1970)359-367

Separation of dichloroethane-trichloroethylene mixtures by means of a membrane pervaporation process
Jin Sheng 80(1991)85-95

Dichlorofluoromethane

Concentration and demineralization of sea water by the hydrate process
J. Sugi and S. Saito 3(1967)27-31

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica 12(1973)239-250

Dichlorotetrafluoroethan e

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 ($CClF_2CClF_2$)
G.L. Stepakoff and A.P. Modica 12(1973)85-105

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica 12(1973)239-250

Diesel engine

Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation
R. Rautenbach and B. Arzt 44(1983)121-128

Analysis of a diesel dual plant
S. E. Aly 64(1987)137-150

The Ebeye desalination project — Total utilization of diesel waste heat
W.E. Toelkes 66(1987)59-68

High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator
T. Michels and F. Murat 66(1987)69-74

Diffusion

Diffusion doublet research
Y. Henderyckx 3(1967)237-242

Diffusion-layer structure in reverse osmosis channel flow
T.J. Hendricks and F.A. Williams 9(1971)155-180, Err. 9(1971)296

Prediction of the diffusion of discharged brine by a simulation analytical method
A. Wada, N. Katano and T. Goto 22(1977)91-100

Water softening by diffusion using cation exchange membranes
B.S. Joshi and K.P. Govindan 38(1981)509-516

Performance of multiple effect diffusion stills
M.M. Elsayed, K. Fathalah, J. Shams and J. Sabbagh 51(1984)183-199

Dyestuff diffusion from gas phase into HPET film
N. Choji and M. Karasawa 62(1987)55-68

Pore formation mechanism of membranes from phase inversion process
Tai-Horng Young and Leo-Wang Chen 103(1995)233-237

Diffusion and sorption of water in moderately hydrophilic polymers: From segmented polyetherurethanes to poly-3-hydroxybutyrate
A.L. Iordanskii, L.P. Razumovskii, A.V. Krivandin and T.L. Lebedeva 104(1996)27-35

Diffusion coefficients

A new method for measuring diffusion coefficients of electrolytes in nonionic membranes
C.W. Saltonstall, Jr., W.M. King and D.L. Hoernschemeyer 4(1968)309-327

An equation for estimating the diffusion coefficient of electrolytes in ion-exchange membranes
H. Miyoshi, T. Fukumoto and T. Kataoka 48(1983)43-54

Diffusion dialysis

Trace element removal from ash dam waters by nanofiltration and diffusion dialysis
R. Simons 89(1993)325-341

Recovery of acid and water by membrane dialysis
G. Wisniewska, J. Wisniewski and T. Winnicki 91(1993)307-317

Digital technology

Desalination plant control with microprocessor based digital technology
G. O. Hultin and R. Harper 45(1983)329-336

Dioxane

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Direct contact condensation

Condensation of steam in a channel flow in the presence of noncondensable gases with surface resistance
A. Tamir and Y. Taitel 8(1970)293-309

Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface
D. Pnueli and G. Iddan 9(1971)285-294

Direct condensation of steam on a modified oil coolant
J.R. Maa and K. Hickman 10(1972)95-111

Direct contact condensation multistage flash distillation
A. Kogan 19(1976)299-307

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Direct contact evaporation

Direct contact vapor recompression evaporation desalination process. Economic assessment
K.L. Pinder 4(1968)45-54

A tubeless evaporator
D.W. Schroeder and P.J. Schroeder 38(1981)155

A study of a new thermal vapor compression/multi-effect stack (TVC/MES) low temperature distillation system
S.E. Aly 103(1995)257-263

Direct Contact heat transfer

Development of direct contact flash distillation concepts
P.T. Walker, I. Newson and K.D.B. Johnson 2(1967)196-206

Direct contact heat transfer with change of phase: bubble growth in three-phase systems
S. Sideman and J. Isenberg 2(1967)207-214

Pilot plant study of desalination by direct contact heat transfer
T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan 13(1973)221-229

Heat transfer to an immiscible liquid mixture and between liquids in direct contact
T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan 13(1973)231-249

Direct filtration

Reclaimed water — An untapped resource
J.(H.) van Leeuwen 106(1996)233-240

Direct freeze concentration

Determination of a liquid state from that of liquid solution coupled to it by a common vapor phase
L.C. Dickey and J.C. Craig, Jr. 78(1990)397-401

Direct ion exchange

Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange
L. Liberti, R. Passino and D. Petruzzelli 48(1983)55-66

Direct osmosis

Desalination of sea water by direct osmosis
R. E. Kravath and J. A. Davis 16(1975)151-155

The use of direct osmosis tests as complementary experiments to determine the water and salt permeabilities of reinforced cellulose acetate membranes
I. Goossens and A. van Haute 26(1978)299-308

Precise measurement of membrane constants of cellulose acetate membranes by direct osmosis tests
M. Matsuda and C. Kamizawa 49(1984)367-378

Disinfection

Membrane cleaning
G. Trägårdh 71(1989)325-335

New disinfection method in RO seawater desalination systems
S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino 96(1994)191-199

Electrochemical generation of ozone for water treatment using a cell operating under natural convection
W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed 99(1994)149-157

On-site tertiary treatment using Ecomax systems
M. Bowman 106(1996)305-310

Dispersant

Application of cross-flow electro-microfiltration in chromium wastewater treatment
C. Visvanathan, R. Ben Aim and S. Vigneswaran 71(1989)265-276

Distillate

Treatment of distillates and permeates from seawater desalination plants
H. Ludwig and M. Hetschel 58(1986)135-154

Electrical conductivity and total dissolved solids - what is their precise relationship?
N.R.G. Walton 72(1989)275-292

Distillate purity from MSF: The theoretical design and a real case behaviour
C. Sommariva, R. Borsani and A. Tasca 81(1991)309-320

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat 107(1996)111-119

Distillation

Inexpensive distillation of natural water in power plants *(in French)*
J. Mascarello 3(1967)359-362

Titanium for sea water distillation tubing
N.G. Feige and R.L. Kane 7(1969)17-22

Saline water conversion by carrier gas distillation
H. Lentz 7(1970)245-248

A distillate collection and measurement system with a non-contact photoelectric level controller
N. Lior, J. Leibovitz and A. D. K. Laird 13(1973)93-94

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Progress in distillation
R. Rautenbach 93(1993)1-13

Improvement in distiller production and performance ratio after modification of the stage venting system
I.D. McGregor and H. Moore 93(1993)159-169

Technical and economic evaluation of distillation and reverse osmosis desalination processes
N.M. Wade 93(1993)343-363

Optimum conditions for a solar still and its use for a greenhouse using the nutrient film technique
S.M. El-Haggar and A.A. Awn
94(1993)55-68

Stand-alone thermal desalination plants
V.G. Rifert, P.A. Barabash, N.N. Goliayd and E.B. Kurilova
96(1994)183-190

Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold
L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev
105(1996)159-163

Maintenance activity for partial intervention of retubing on four distillers multi-flash double-deck (capacity 3 mgd for each unit) of Abu Dhabi power station after 18 years of operation activity
V. Franchini 108(1996)295-313

Distillation, Capillary

A hardy, high-yield solar distiller of brackish water
R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff 67(1987)43-52

Separation of liquid mixtures by capillary distillation
G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere 81(1991)129-160

Vapor-liquid equilibrium in capillary distillation
G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza 81(1991)161-187

Distillation, Flash

Flow of flashing water in conduits
A.N. Dickson and R.S. Silver
2(1967)175-195

Development of direct contact flash distillation concepts
P.T. Walker, I. Newson and K.D.B. Johnson 2(1967)196-206

On some aspects of flash distillation without metallic interfaces
A. Kogan and M. Victor 4(1968)80-93

A low temperature model for equilibration rates in flashing-flow and its design implications
A. Porteous 6(1969)337-347

Titanium for sea water distillation tubing
N.G. Feige and R.L. Kane
7(1969)17-22

Optimization of a single effect, multi-stage flash distillation desalination system
A.K. Coleman 9(1971)315-331

Improved performance of heat transfer surfaces in desalination *(in French)*
J. Croix and F. Lauro 31(1979)35

Heat transfer and fluid flow characteristics in flash desalination units
E. E. Khalil, M. M. Hilal, M. F. El-Fouly and H. Z. El-Mogy
39(1981)283-294

Distillation, High temperature

Scale control in the high temperature distillation of saline waters by means of fluidized-bed heat exchangers
L.P. Hatch, G.G. Weth and S.J. Wachtel 1(1966)156-164

High temperature distillation process with sea water feed decalcification pretreatment
D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
40(1982)347-355

Application of the multi-effect process at high temperature for large seawater desalination plants
B. Franquelin, F. Murat and C. Temstet 45(1983)81-92

Thermal evaluation of high temperature distillation under an active mode of operation
G.N. Tiwari and S.A. Lawrence
85(1992)135-145

Distillation, Long-tube vertical

Analytical comparison of the multi-stage flash and long-tube vertical distillation processes
M.J. Burley (1967)81-88

Distillation, Low-temperature

Low temperature reheat distilling plant
D. K. Forsyth and M. Takada
31(1979)145-151

Application of low-temperature waste heat distillation in nuclear plants *(in French)*
P. Combaz, J.C. Deronzier and F. Lauro 31(1979)207-218

Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller
J.C. Deronzier, F. Lauro and R. Ployart 39(1981)117-123

Ocean thermal energy and desalination
M. Rey and F. Lauro
39(1981)159-168

Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant
T.R. Blake and G. Willocks
39(1981)311-322

Coupling of a power plant with a low temperature multi-effect desalination plant
L. Awerbuch, A. Maddagiri, F. E. Swart and A. N. Rogers
44(1983)177-188

Distillation, Membrane see Membrane distillation

Distillation, Multieffect

Comparison of economic data of the main types of the desalting distillation plants
S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
5(1968)29-33

An assessment of multiple effect boiling distillation in relation to multi-stage flash distillation
R.S. Silver 9(1971)235-243

Coupling of standard condensing nuclear power stations to horizontal aluminium tubes multieffect distillation plants
J. Adar 20(1977)143-154

The Joint United States/Israel desalination project: Progress report
A.Z. Barak, L. Awerbuch and R.H. Horowitz 23(1977)553-562

Concentration of heavy water in seawater distillation process
T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa 25(1978)61-69

Improved performance of heat transfer surfaces in desalination *(in French)*
J. Croix and F. Lauro 31(1979)35-

Multiple effect distillation with horizontal tube evaporators *(In French)*
J.C. Deronzier 31(1979)115-124

Multi-effect desalination plant using a plastic heat transfer surface *(in French)*
F. Lauro 31(1979)221-231

Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems
L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi
31(1979)457-468

Present and future energy aspects in VC, MED single and dual purpose desalination plants
J. Weinberg and U. Fisher
40(1982)49-61

Desalination plant using low grade geothermal heat
A. Ophir 40(1982)125-132

The joint U.S.-Israel desalination project status report and the impact of rising energy costs on the program
A. Peled and J. Finke
40(1982)217-223

One year of operation of Israel Desalination Engineering's multi-effect distillation U.S. Virgin Islands
U. Fisher 44(1983)73-84

Optimal water cost from solar-powered multieffect distillation
B.W. Tleimat 44(1983)153-165

Coupling of a power plant with a low temperature multi-effect desalination plant
L. Awerbuch, A. Maddagiri, F. E. Swart and A. N. Rogers
44(1983)177-188

Comparative study between vapor compression and multi effect boiling desalination systems
M. A. Darwish, K. A. Fathalah and S. E. Aly 45(1983)77-80

Application of the multi-effect process at high temperature for large seawater desalination plants
B. Franquelin, F. Murat and C. Temstet 45(1983)81-92

Comparative study between conventional and vapor compression multi-effect desalination systems
M.A. Darwish, S.E. Aly and K.A. Fathalah 49(1984)153-167

The multi-effect boiling desalting system and its comparison with the multi-stage flash system
M.A. Darwish and A.A. El-Hadik
60(1986)251-265

High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator
T. Michels and F. Murat
66(1987)69-74

Vapour compression distillation using waste heat absorption systems
S. E. Aly 68(1988)57-68

Technical aspects of reducing desalting water costs in distillation methods
M.A. Darwish and M. Abdel-Jawad
72(1989)381-393

Prevention of the scale trouble of multi-effect stacked desalination plant
Y. Fujioka, M. Soda, M. Zama and I. Shimizu 73(1989)371-383

Open multiple effect desalination with low temperature process heat
T. Baumgartner, D. Jung and R. Sizmann 81(1991)299-307

Second law analysis of multieffect and multistage flash desalination plants
M.S. Al-Ahmad and M.A. Darwish
81(1991)449

Low temperature, multi-effect distillation for cogeneration yielding the most efficient sea water desalination system
A. Ophir 84(1991)85-101

Thermal assessment of a multiple effect boiling (MEB) desalination system
O.A. Hamed 86(1992)325-339

Optimizing and planning of seawater desalination
W.F.J.M. Nooijen and J.W. Wouters
89(1992)1-20

Design and operating comparison of MSF and MED systems
O.J. Morin 93(1993)69-109

Recent achievements of low temperature multiple effect desalination in the western areas of Abu Dhabi, UAE
T. Michels 93(1993)111-118

Review of various combinations of a multiple effect desalination plant (MED) and a thermal vapour compression unit
A. Al-Radif 93(1993)119-125

Performance characteristics of a multi effect solar pond desalting system in an arid environment
O. Al-Hawaj and M.A. Darwish
96(1994)3-10

A new multiple-effect distiller system with compact heat exchangers
H. Morsy, D. Larger and K. Genthner
96(1994)59-70

System design optimization of a solar desalination plant using a multi-effect stack type distillation unit
A.M. El-Nashar 97(1994)587-618

Adaptation of the multi-effect distillation (MED) process to yield high purity distillate for utilities, refineries and chemical industry
A. Ophir and A. Gendel
98(1994)383-390

A solar pond assisted multi-effect desalting system
O. Al-Hawaj and M.A. Darwish
99(1994)119-135

A large high-performance MED plant in Sicily
C. Temstet, G. Canton, J. Laborie and A. Durante 105(1996)109-114

Advanced MED solar desalination plants. Configurations, costs, future — Seven years of experience at the Platforma Solar de Almeria (Spain)
B. Milow and E. Zarza
108(1996)51-58

Cogeneration with the LT-MED desalination process
G. Kronenberg 108(1996)287-294

Distillation, Multieffect flash

Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
4(1968)336-360

Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
4(1968)361 -388

Distillation, Multistage flash

Analytical comparison of the multi-stage flash and long-tube vertical distillation processes
M.J. Burley 2(1967)81-88

Economics of multi-stage distillation in relation to conventional water supply
P.A. Mawer 2(1967)99-108

Study of the mechanism of flashing flow by experiment and theoretical analysis
R.I. Hawes and D.C. Leslie
2(1967)329-336

Optimal design of desalination systems
L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang 3(1967)225-236

Present technological status of the multi-stage flash type evaporation process
I. Vilentchuk 4(1968)220-235

Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
4(1968)336-360

Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
4(1968)361-388

Multi-stage flash distillation. The first 10 years
R.S. Silver 9(1971)3-17

An assessment of multiple effect boiling distillation in relation to multi-stage flash distillation
R.S. Silver 9(1971)235-243

Optimization of a single effect, multi-stage flash distillation desalination system
A.K. Coleman 9(1971)315-331

The MSF/FBE: An improved multi-stage flash distillation process
A.W. Veenman 19(1976)1-14

Construction of flash distillation units with structurally independent stages *(in Spanish)*
J.S. Mejorada and O.P. Siller
19(1976)269-282

Direct contact condensation multistage flash distillation
A. Kogan 19(1976)299-307

Geothermal desalting at the East Mesa test site
W.J. Boegli, S.H. Suemoto and K.M. Trompeter 22(1977)77-90

"No new water"
W.R. Querns 23(1977)409-421

Marginal operation field of existing MSF distillation plants
B. Z. Tanios 51(1984)201-212

A 600-day experiment with polyphosphate as anti-scale agent in MSF distillers
A.M. Shams El Din 61(1987)89-101

Sea water desalination in Kuwait — A report on 33 years experience
A.A.J. Al-Zubaidi 63(1987)1-55

Synthesis of thermal desalination processes. Part I. Multistage flash distillation system (MSF)
N. J. Scenna 64(1987)111-122

Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study
P.K. Tewari, M.S. Hanra and M.P.S. Ramani 64(1987)203-210

Studies on the behaviour of high performance multiple-effect-stack processes
R. Rautenbach and J. Gebel
65(1987)75-85

The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers
K. Genthner, S. Khalaf, W. Ruehle and A. Seifert 65(1987)171-186

A 700-day experiment with Belgard EV-2000 as anti-scale agent in MSF distillers
A. M. Shams El Din 69(1988)147-160

The development of the multi-stage flash distillation process: A designer's viewpoint
R.M. Morris 93(1993)57-68

Design and operating comparison of MSF and MED systems
O.J. Morin 93(1993)69-109

Optimal performance of MSF distillers for UANW 9 and 10 power plant: A thermoeconomic study
A.M. El-Nashar and A.A. Qamhiyeh
93(1993)323-342

Factors affecting the useful economic life of large MSF distillers
I.D. McGregor and A. Barton
93(1993)387-395

Evaluation of Belgard EV 2000 as antiscalant control additive in MSF plants
S.A. Al-Saleh and A.R. Khan
97(1994)87-96

Comparative study of two anti-scale agents Belgard EVN and Belgard EV 2000 in multi-stage flash distillation plants in Kuwait
S.A. Al-Saleh and A.R. Khan
97(1994)97-107

Brine and scale chemistry in MSF distillers
A.M. Shams El Din and R.A. Mohammed 99(1994)73-111

Distillation plants

Prevention of scale formation in distillation desalination plants by means of seeding
V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novilov and V.I. Tkach 1(1966)50-60

History, experience and economics of water production in Kuwait
M.H. Ali El-Saie 1(1966)77-95

Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience
F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
1(1966)165-177

Operating experiences with mobile distillation plants, with particular reference to the avoidance of calcium sulphate scale
H.M. Peacock 3(1967)280-294

Scale formation in sea water distillation plants
O. Flint and M.N. Elliot 5(1968)5-16

Solar ponds as heat source for low-temperature multi-effect distillation plants
H. Tabor 17(1975)289-302

Reheat type distilling plant
M. Takada, S. Kikuchi and J. Gaydos
20(1977)385-390

Low temperature reheat distilling plant
D. K. Forsyth and M. Takada
31(1979)145-151

Investigation of water desalination by distillation technique
N.M. Sinev, V.G. Shatsillo, V.B. Chernozubov, A.A. Samarkin and J.S. Baranov 45(1983)315-320

An assessment of different scale control methods
R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
47(1983)49-62

Energy savings in distillation plants by using vapor thermo-compression
S. E. Aly 49(1984)37-56

The development of high-performance distillation plants
R. Rautenbach and B. Arzt
56(1985)261-275

Distillation plants, Flash

Mobile and floating flash distillation plants
K.D.B. Johnson and D.W. Clelland
2(1967)170-174

Optimization of flash distillation plants for sea-water conversion
B. Kunst 3(1967)195-202

Problems likely to be encountered in the design of a large flash distillation plant
R. Starmer, F.C. Thornley and J.A. Modet 3(1967)343-352

Revaluation of the once-through type flash distillation plant
W. Nishimoto and J.-I. Sakuma
14(1974)369-378

Use of double-fluted tubes in vertical preheaters and condensers of MSF distillation plants
L. Awerbuch and A.N. Rogers
17(1975)121-130

Construction of flash distillation units with structurally independent stages *(in Spanish)*
J.S. Mejorada and O.P. Siller
19(1976)269-282

Sea water intake and its effect on heat rejection design and material for flash distillation plant
M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim
38(1981)257-267

Distillation plants, multiflash

Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel *(in French)*
J. Huyghe, G. Barois, A. Michel and H. Mondin 4(1968)209-219

Some thoughts on the limitations on increasing the unit sizes of conventional cross-tube MSF distillation plants
W.T. Hanbury 93(1993)127-145

Current status of materials selection for MSF distillation plants
T. Hodgkiess 93(1993)445-460

Distillation processes

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Some thoughts on distillation processes
T. Kinlin 30(1979)75

Development of distillation processes responsive to energy cost escalations
H. H. Sephton 40(1982)375-384

Relationship between desalination processes and electric energy generation
L. Gasparini 40(1982)395-400

Future developments in desalination distillation processes
L. Awerbuch 50(1984)61-70

A modified system of subsidizing distilled water in Kuwait
F.Z. Elshibini and G.A. Al-Nakshabandi 72(1989)235-246

Technical aspects of reducing desalting water cost by distillation methods
M.A. Darwish and M. Abdel-Jawad
76(1989)305-322

Towards less expensive fresh water from the sea
M.G. Morsy 93(1993)397-408

Enhanced solar still performance using water film cooling of the glass cover
B.A.K. Abu-Hijleh 107(1996)235-244

Distillation systems

Orbital tube evaporation and distillation systems
Yao Tzu Li and I Chien Ho
65(1987)87-99

New water distillation system incorporating a membrane mist separator
M. Tamura 80(1991)105-112

Distilled water

A modified system of subsidizing distilled water in Kuwait
F.Z. Elshibini and G.A. Al-Nakshabandi 72(1989)235-246

A recarbonation process for treatment of distilled water produced by MSF plants in Kuwait
H.E. Al-Rqobah and A. Al-Munayyis
73(1989)295-312

Experimental and theoretical method for the determination of the daily output of a solar still: input-output method
V. Belessiotis, K. Voropoulos and E. Delyannis 100(1995)99-104

Distillery effluent

Demineralization of a molasses distillery waste water
F.G. Neytzell-de Wilde
67(1987)481-493

Distribution coefficients

Membrane-water distribution coefficients of ions in cellulose acetate membrane
Y. Taniguchi and S. Horigome
16(1975)395-397

Uptake of electrolytes by cellulose acetate membranes
G. Mossa and R. Passino
46(1983)417-424

Dodecylsulfate

The poisoning of anion-selective membranes by sodium dodecylsulphate
E.J.M. Kobus and P.M. Heertjes
10(1972)383-401

Donnan dialysis

Removal of nitrate ions acidic wastewater by Donnan dialysis involving tabular exchange membranes
G. Wisniewska and T. Winnicki
56(1985)161-173

Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes
G. Wisniewska and T. Winnicki
68(1988)121-130

Elimination of nitrate from drinking water by electrochemical membrane processes
K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
101(1995)123-131

Donnan exclusion

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder
71(1989)233-245

Double-fluted tubes

Use of double-fluted tubes in vertical preheaters and condensers of MSF distillation plants
L. Awerbuch and A.N. Rogers
17(1975)121-130

Downstream processing

Membrane filtration as a tool in biotechnical down-stream processing
O.J. Olsen 62(1987)329-339

Ultrafiltration applications
A.-S. Jönsson and G. Trägårdh
77(1990)135-179

Drainage discs

Hydrodynamic and heat transfer studies on fluted tubes with drainage discs
C. Özgen and H. Gökçe 45(1983)183

Effect of inclination on the heat transfer performance of fluted tubes with and without drainage discs
A. Büyükyilmaz, C. Özgen and T.G. Somer 65(1987)3-23

Drainage water

The desalination of coalmine drainage water by reverse osmosis
R.C. Squires, J.A.C. Cowan and F.C. Wood 47(1983)343-350

Drainage water reuse or disposal, Jeddah, Saudi Arabia
O.S. Abu-Rizaiza and H.Z. Sarikaya
98(1994)173-183

Drinking water

Chemical drinking water standards, an example of guesswork?
G.M. Berlyne and R. Yagil
13(1973)217-220

Water for life: Israel's R & D for water renovation and sweet water production
D. Ashboren and M. Waldman
30(1979)213-221

Toxicological aspects of scale preventative agents used in desalination equipment for drinking water
R.A. Leimgruber 30(1979)401

Appropriate mineral content of desalinated water — Theory and drinkers' reaction
E. Gabbrielli and J.P. Gerofi
45(1983)357

Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis
G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
47(1983)267-274

The use of reverse osmosis for removal of nitrate in drinking water
H. Bilidt 53(1985)225-230

Measurement and control of feed water and product water composition
W.F. McIlhenny 59(1986)445-460

The microbial analysis of domestic cistern water in the U.S. Virgin Islands
I.R. Isquith and H. Winters
66(1987)415-421

Ultrafiltration of lake water for potable water production
M.M. Clark and K.S. Heneghan
80(1991)243-249

Recharging a potable water supply aquifer with reclaimed wastewater in Cambria, California
J.A. Townley, S. Swanback and D. Andres 88(1992)341-354

Iron removal from tap water by a cation exchanger
E. Korngold 94(1994)243-249

Reliable supply of drinking water through use of high performance B-10 "TWIN" permeators. A one year case history at Das Island, UAE
H.W. Pohland, A.B. Hamida and K. Chida 96(1994)303-310

KACST mobile drinking water treatment plant for research
A.I. Alabdula'aly and A.A. Chammem
98(1994)71-82

Elimination of nitrate from drinking water by electrochemical membrane processes
K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
101(1995)123-131

Membrane treatment is versatile — A single treatment facility producing boiler feed, food processing water, and drinking water
M.D. Miller and J.E. Potts
102(1995)313-319

Removal of heavy metals from tap water by a cation exchanger
E. Korngold, S. Belfer and C. Urtizberea 104(1996)197-201

Drinking water treatment by using ultrafiltration hollow fiber membranes
S. Nakatsuka, I. Nakate and T. Miyano 106(1996)55-61

Study on fouling materials in the membrane treatment process for potable water
Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa 106(1996)71-77

Membrane fouling decrease by microfiltration with ozone scrubbing
S. Takizawa, K. Fujita and K.H. Soo
106(1996)423-426

Nanofiltration of highly colored raw water for drinking water production
B. Ericsson, M. Hallberg and J. Wachenfeldt 108(1996)129-141

Drop entrainment

General approach to the drop entrainment calculation in heat- and mass-transfer apparatus
V.V. Iljushchenko, A.M. Rosen and S.I. Golub 81(1991)383-390

Drop structure decarbonator

The pH control in the large-scale MSF plants by using drop structure type decarbonator
T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome 22(1977)415-423

Drought-proofing

Drought-proofing in Southern California by seawater desalting is economic today
W.E. Katz 86(1992)1-8

Dryout

Experimental investigation of the dryout at low mass velocities and pressures
Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
108(1996)375-379

Dual media filtration

Pretreatment of surface seawater feed at DROP
S. Ebrahim and A. Malik
63(1987)95-107

Dual product plants

Design and operation of a 5000 m^3/d reverse osmosis dual product plant
R. Blevitt and J.L. Hooper
20(1977)119-142

Fuel allocation in dual-purpose plants
M.A.K. Al-Sofi and M.M. Srouji
100(1995)65-70

Dual purpose plants

Large scale dual purpose plant for water/power production
D.W. Clelland 2(1967)215-219

Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California
W.K. Davis, L. Galstaun and C. Sharpf 2(1967)227-233

Choice and optimization of eventual heat sources for large desalting plants in Israel
J. Adar 3(1967)37-45

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Questions of sea water desalination plant design
W. Fichtner 3(1967)252-258

Inexpensive distillation of natural water in power plants *(in French)*
J. Mascarello 3(1967)359-362

Characteristics of dual-purpose plants producing desalted water and electricity from the same thermal energy source *(in French)*
M. d'Orival 4(1968)66-79

Use of nuclear plants in the desalination of sea water *(in German)*
L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow
4(1968)103-118

Selection of parameters of an atomic energy plant with high productivity distillation of sea water
L.S. Sterman, N.A. Mozharov and V.V. Gubenko 5(1968)95-106

Optimum conjunctive use of a dual-purpose desalting plant and a surface water reservoir
F. Mobasheri and R. Harboe
9(1971)141-153

Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization
L. T. Fan, C. L. Hwang, N. C. Pereira, L. E. Erickson and C. Y. Cheng
11(1972)217-238

Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis
L.E. Stamets, L.T. Fan and C.L. Hwang 11(1972)239-254

The new look at dual-purpose plant design
T.E. Lindemuth and L. Awerbuch
17(1975)75-86

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia
A.M. El-Nashar and A.A. Husseiny
19(1976)189-199

Desalting geothermal brines
A.D.K. Laird and B.W. Tleimat
19(1976)309-316, Err. 21(1977)234

Dual purpose power/water plants utilizing both distillation and reverse osmosis
C.D. Hornburg and J.E. Cruver
20(1977)27-42

The design, construction, testing and operation of a large scale prototype desalting plant in Israel
A.Z. Barak and W.L. Barnes
20(1977)163-172

Desalination in the development of Libya. Problems of implementation and impact on environment
H. El-Hares and M. Aswed
20(1977)249-256

Qatar desalination plants
D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti
26(1978)109-116

Design and operation of 2 x 2.5 mgd Bahrain desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 26(1978)117-125

Engineering management of nuclear desalination plants — A case study, Saudi Arabia
A.F. Abdul-Fattah and A.A. Husseiny
27(1978)283-331

Combined Yanbu and Medina power and desalination plant
I.M.R. Jamjoom and G. Costes
30(1979)283-300

Optimization of a dual purpose plant for seawater desalination and electricity production
K. Kuenstle and V. Janisch
30(1979)555-569

A distillation process without energy consumption *(in French)*
W. Bongard 30(1979)583-593

Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant
S. C. May, E. H. Houle, S. A. Reed and W. F. Savage 30(1979)605-612

A new look at dual purpose, water and power, plants — Economy and design features
S. Tadros 30(1979)613

Waterhammer studies of power/desal plants cooling water system with common discharge conduit
W.S. Hsieh and J.R. Stange 31(1979)183-184

On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants
R. Rautenbach and E. Ghafour 31(1979)521-532

The VTE boiler: an advanced thermal system for the desalination of sea water
I. Kamal and C.H. Hughes 31(1979)533-544

Optimal selection of major equipment in dual purpose plants
E. Gabbrielli 36(1981)1-23

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Design of high efficiency single and dual purpose plants with gas turbines
G. F. Tusel and I. Kamal 38(1981)135-144

Analysis of water and power costs by various methods, based on Jeddah IV
G.F. Tusel and I. Kamal 38(1981)145-

Development of environmental standards, for combined desalination/power generating stations in the Arabian Gulf region
D. L. Brining, W. C. Lester, W. N. Jessee, D. A. O'Leary, S. Bourgeois and M. S. A. Salam 39(1981)255-260

Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant
T.R. Blake and G. Willocks 39(1981)311-322

Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements
L. F. Giannuzzi, O. E. Horn and M. Nakhamkin 39(1981)437-446

Present and future energy aspects in VC, MED single and dual purpose desalination plants
J. Weinberg and U. Fisher 40(1982)49-61

Available electricity loss for low grade heat
M. Schaal 40(1982)77-85

Solar energy as a source for production of power and desalinated water
A. Ophir and N. Nadav 40(1982)103-124

Desalination plant using low grade geothermal heat
A. Ophir 40(1982)125-132

Desalination at inland sites
A. Gendel 40(1982)135-142

Distillation and reverse osmosis: Energy consumption and costs
N.M. Wade and M.R. Hornsby 40(1982)245-257

Energy advantages of reverse osmosis in seawater desalination
C.T. Sackinger 40(1982) 271-281

Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys
S. Toyama, Y. Nakashima and M. Sato 40(1982)297-309

Cost of producing power and water in a combined power station and seawater desalination plant
R. Al-Assar, H.E. Hömig and K. Maurath 40(1982)311-316

Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant
A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke 44(1983)17-27

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel 44(1983)61-72

Power and water production in cogeneration systems
S.K. Tadros 44(1983)101-102

Optimization in dual purpose plants
F. Cantera Palacios and J. Ma. Sánchez-Sánchez 45(1983)109-110

Design and performance of the world's largest operating dual-purpose sea water desalting plant
F. G. Abbosh, I. Kamal, S. Chalchal and H. Gerke 45(1983)223-230

Gas turbines in desalination plants
F. Pacini 45(1983)281-288

Optimization in dual purpose plants
F. Cantera Palacios and J.-Ma. Sánchez-Sánchez 45(1983)391-398

Study of the operating conditions for three large MSF desalination units each of capacity 7.2/8.6 mgd (27360/32832 ton/day) in Abu Dhabi, UAE
M.H. Ali El Saie, M.S.I. El Kafrawi and M.I. Kamel 73(1989)207-230

Analysis of a fuel-solar assisted central dual purpose plant
S.E. Aly 78(1990)363-379

Optimal thermodynamic synthesis of dual-purpose desalination plants. Extraction vs. back pressure turbines
N.J. Scenna and P. Aguirre 81(1991)419-436

Analysis of a fuel-solar assisted central DPP
S.E. Aly 82(1991)246

Optimum operation of steam-power cycle in dual MSF desalination plants
I.S. Al-Mutaz and M.A. Soliman 84(1991)103

Operation of dual MSF desalination at water/power peak demand
I.S. Al-Mutaz 84(1991)105

Fuel efficiencies, allocation of fuels and fuel costs for power and desalination in dual purpose plants: A novel methodology
M.N. Saeed 85(1992)213-229

Seawater desalting for Southern California: Technical and economic considerations
G. Hess, O.J. Morin and W.V. Carrigan 87(1992)55-68

Desalination plant integration with cogeneration systems for EOR/commercial/industrial applications
S. Tadros 87(1992)137-147

Power and water co-production feasibility study of Florida power and light power plants
M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters 88(1992)267-277

Fuel economics: A comparative study of dual-purpose power and desalination plants in the WED grid based on a constant heat value of water
M.N. Saeed 93(1993)409-429

Maintenance philosophy and approach for a dual purpose plant
S. Khalaf and A. Al Alawi 96(1994)273-282

Life cycle and present worth cost concepts, applicable for large desalting plants?
G.F. Leitner and W. Leitner 97(1994)291-300

Seawater desalination to augment the water supply on Penghu Island, Taiwan
Jack Chen, Harry S. Lu and Leon Awerbuch 97(1994)319-325

Energy consumptions and costs with a multi-stage flashing (MSF) desalting system
M.A. Darwish, F.A. Yousef and N.M. Al-Najem 109(1997)285-302

Dual-purpose plants

Sea water desalination in Kuwait — A report on 33 years experience
A.A.J. Al-Zubaidi 63(1987)1-55

Critical comparison between energy consumption in large capacity reverse osmosis (RO) and multistage flash (MSF) seawater desalting plants
M.A. Darwish 63(1987)143-161

Hybrid desalting systems — A new alternative
L. Awerbuch, V. van der Mast and R. Soo-Hoo 64(1987)51-63

Analysis of a diesel dual plant
S. E. Aly 64(1987)137-150

On the thermodynamics of dual purpose power desalting plants. Part I. Using steam turbines
M.A. Darwish 64(1987)151-167

On the thermodynamics of dual purpose power desalting plants. Part II. Using gas turbines
M.A. Darwish, A. Elhadek and A. Dayoub 64(1987)169-182

Computer-based performance evaluation of dual-purpose steam turbine/multistage flash desalination plants
F.G. Abbosh and I. Kamal 66(1987)127-140

Optimization of dual-purpose steam power and MSF desalination plant
M.H. Ali El-Saie and Y.M.H. Ali El-Saie 76(1989)155-175

Modernizing the desalination industry
R.P. Hammond 107(1996)101-109

Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants
I. Kamal and G.V. Sims 109(1997)1-13

Dust regulation

A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions
Wang Zhenkun, Zhang Huanxin and Chan Ruiying 62(1987)165-171

Dye separation

Decolorization of dye solutions by continuous ultrafiltration
K. Majewska-Nowak and T. Winnicki 60(1986)59-66

The reuse of reactive dye liquors using charged ultrafiltration membrane technology
A. Erswell, C.J. Brouckaert and C.A. Buckley 70(1988)157-167

Characterisation of nanofiltration membranes for the separation of aqueous dye-salt solutions
P. Schirg and F. Widmer 89(1992)89-107

Salt effect on the dye separation by hydrophilic membranes
K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki 108(1996)221-229

Dyes

Dyestuff diffusion from gas phase into HPET film
N. Choji and M. Karasawa 62(1987)55-68

Synthesis and properties of polysulfone membranes
K. Majewska-Nowak 71(1989)83-95

Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents
K. Majewska-Nowak, T. Winnicki and J. Wisniewski 71(1989)127-135

Formation of UF rod-type membranes
K. Majewska-Nowak, J. Wisniewski and T. Winnicki 78(1990)417-427

Membrane distillation and wastewater treatment
V. Calabrò, E. Drioli and F. Matera 83(1991)209-224

Modification of the properties of rod-type membranes by varying typical parameters of the casting process for phase inversion membranes: A comparative study
K. Majewska-Nowak, J. Wis´niewski and T. Winnicki 89(1992)47-62

Reclamation and reuse of process water from reactive dyeing of cotton
H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen 106(1996)195-203

Dynamic behavior

Dynamic behavior of thin film sea water evaporators
M. Schaal and F.S. Aschner 25(1978)233-252

Dynamic membranes

Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (I)
K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor 1(1966)225-230

Hyperfiltration studies. X. Hyperfiltration with dynamically-formed membranes
K.A. Kraus, A.J. Shor and J.S. Johnson, Jr. 2(1967)243-266

Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes
J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona 5(1968)359-369

Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes
S.B. Sachs, W.H. Baldwin and J.S. Johnson 6(1969)215-228

Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes
P. Hoornaert, C. Lefebvre and A. Van Haute 11(1972)315-327

Dynamically formed polyelectrolyte membranes on partially cured cellulose acetate
G. Tanny and J. Jagur-Grodzinski 13(1973)53-62

Reverse osmosis by dynamically formed cation exchanger membranes
J.W. Van Heuven and R.K. Bloebaum 14(1974)229-237

Engineering development of hyperfiltration with dynamic membranes. Part I. Process and module development
D.G. Thomas and W.R. Mixon 15(1974)287-323

Engineering development of hyperfiltration with dynamic membranes. Part II. Brackish water pretreatment pilot plant
J.D. Sheppard and D.G. Thomas 15(1974)307-323

Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed
D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard 15(1974)325-341

Engineering development of hyperfiltration with dynamic membranes. Part IV. Economic analysis
D.G. Thomas 15(1974)343-369

Reverse osmosis by dynamic membranes
M. Igawa, M. Seno, H. Takahashi and T. Yamabe 22(1977)281-289

Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) — polyacrylate membranes
D. Freilich and G.B. Tanny 27(1978)233-251

Dynamic polyacrylamide membranes in the reverse osmosis
S. Antoniou, J. Springer and A. Grohmann 32(1980)47-55

Properties of dynamically formed membranes
T. Nomura and S. Kimura 32(1980)57-63

Purification of high temperature water by the reverse osmosis process
S. Kimura and T. Nomura 38(1981)373-382

An investigation of using statistically designed experiments and a computer model
A.M. El-Nashar and J.S. Shih 38(1981)397

Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration
C. A. Brandon, D. A. Jernigan, J. L. Gaddis and H. G. Spencer 39(1981)301-310

Effects of surfactants on the hyperfiltration performance of dynamic membranes
R.J. Luppino and H.G. Spencer 41(1982)33-45

Desalination by the use of dynamically formed PVA membranes
Ying Wang et al. 46(1983)335-342

Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse
G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson 47(1983)305-312

Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams
J. J. Porter and G. A. Goodman 49(1984)185-192

Properties of dynamically-formed polyblend membranes
H.G. Spencer, D.K. Todd and D.B. McClellan 49(1984)193-201

Multidimensional response surfaces in the characterization, comparison and optimization of membranes
P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman 61(1987)103-123

Dynamically formed hydrous zirconium (IV) oxide/polyacrylic membranes; low pressure formation, high pressure evaluation
F. G. Neytzell-de Wilde, C. A. Buckley and M. P. R. Cawdron 70(1988)121-136

Dynamically formed hydrous zirconium (IV) oxide—polyelectrolyte membranes V. Non-homogeneous poly(acrylic acid-convinyl alcohol) membranes: Rejection and flux properties and the treatment of coal gasification waste water
A.J. Van Reenen and R.D. Sanderson 72(1989)319-328

Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes VI. Effect of copolymer composition on the stability of poly(acrylic acid-covinyl acetate) and poly(acrylic acid-covinyl alcohol) membranes
A.J. Van Reenen and R.D. Sanderson 72(1989)329-338

Dynamic programming

The optimal design of multi-stage flash evaporators by dynamic programming
S. Itahara and L.I. Stiel 4(1968)248-257

Dynamic protection

Artificial particulate fouling of hyperfiltration membranes IV. Dynamic protection from fouling
G. Belfort 34(1980)159-169

Dynamic stability

Dynamic stability of MSF desalination plants
G.M.R. Assassa and H.T.A. El-Dessouky 45(1983)133

Ecological optimization

New ecological problems of desalting and water re-use
V.D. Grebenyuk, A.A. Mazo and V.M. Linkov 105(1996)175-183

Economic analysis

Comparison of economic data of the main types of the desalting distillation plants
S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin 5(1968)29-33

Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis
S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
11(1972)31-59

Desalination through the vapour compression process in large plants
J.P. le Martret 19(1976)337-348

The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia
A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton
27(1978)215-231

Comparative economics of current and advanced desalting systems
P. Glueckstern 30(1979)223-234

A methodology for comparing water desalination to competitive fresh water transportation and treatment
S.P. Kasper and N. Lior 30(1979)541-552

An advanced method for sea water chemical treatment in MSFD plants
A. De Maio, G. Odone, E. Palmisano and R. Zannoni 31(1979)321-331

Design aspects of a solar assisted reverse osmosis desalting unit for urban communities
A.M. El-Nashar and A.A. Husseiny
32(1980)239-256

Membrane technology and costs; state of the art
B. Bjerke 35(1980)375-382

Membrane life, capacity and costs
D. Pepper 35(1980)383-396

Optimal selection of major equipment in dual purpose plants
E. Gabbrielli 36(1981)1-23

A comparison of the relative economics of sea water desalination by vapour compression and reverse osmosis for small to medium capacity plants
R. Matz and U. Fisher
36(1981)137-151

Comparison of solar RO and solar thermal desalination systems
J.P. Gerofi and G.G. Fenton
39(1981)95-107

The application of Pelton type impulse turbines for energy recovery on sea water reverse osmosis systems
D. J. Woodcock and I. Morgan White
39(1981)447-458

A tailored process for remineralization and potabilization of desalinated water
E. Gabbrielli 39(1981)503-520

Preliminary considerations of combining a large reverse osmosis plant with the Mediterranean — Dead Sea project
P. Glueckstern 40(1982)143-156

The impact of desalinated water quality on energy costs
E. Gabbrielli 40(1982)391-394

Thermodynamic analysis
K. S. Spiegler 44(1983)3-16

Seawater vs. brackish water desalting: Technology, operating problems and overall economics
P. Glueckstern and Y. Kantor
44(1983)51-60

Analysis of the water desalination and power generation expansion plans for the Emirate of Abu Dhabi
A.M. El-Nashar 44(1983)107

Cost allocation for electricity and water for the Umm Al Nar West cogeneration plant using the energy accounting method
A.M. El-Nashar 71(1989)57-71

A combined RO/freezing system to reduce inland rejected brine
A.A. Madani and S.E. Aly
75(1989)241-258

Review of design and specifications of the world largest MSF units 4x(10-12.8 MIGD)
A. Al-Radif, D.M.K. Al-Gobaisi, A.M. El-Nashar and M.S. Said
84(1991)45-84

Microfiltration system as a pretreatment for RO units: Technical and economic assessment
S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney
109(1997)165-175

Economic aspects

Optimisation and design of large scale multi stage flash distillation plants
D.W. Clelland and J.M. Stewart
1(1966)61-76

Demineralization of sea water by electrodialysis
T. Matsuda, S. Ogama and Y. Onoue
3(1967)295-303

The economics of the seed slurry process for scale control
O. Pfefferkorn 19(1976)75-82

Conjunctive use of desalination — A systems view for planning
N. El-Ramly 19(1976)534

World Bank policies regarding assistance to desalination activities *(in Spanish)*
G. Yepes 20(1977)439-448

An integral design for desalination plant using the secondary refrigerant freeze process
A.I. Lloyd 21(1977)137-146

Seawater desalination by electrodialysis
T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa 25(1978)1-7

The MSF desalination process: A comparison of acid and polyphosphate treatment plants
K. Hill 25(1978)111-122

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

The role of energy and economics in water conversion
F. Kranebitter 30(1979)501-514

Marginal operation field of existing MSF distillation plants
B. Z. Tanios 51(1984)201-212

An economic comparison of 2 x1000 m^3/day desalination plants
H.W. Greig and J.W. Wearmouth
64(1987)17-50

Energy consumptions and costs of different desalting systems
M. A. Darwish and N. M. Al-Najem
64(1987)83-96

The vacuum freezing multiple phase transformation process
C.Y. Cheng, W.C. Cheng and M.D. Yang 67(1987)139-153

Water requirements and remote arid areas: The need for small-scale desalination
J. Ayoub and R. Alward
107(1996)131-147

Economic aspects, Plants

History, experience and economics of water production in Kuwait
M.H. Ali El-Saie 1(1966)77-95

Reverse osmosis desalination costs derived from the Coalinga pilot plant operation
D. Stevens and S. Loeb 2(1967)56-74

Problems likely to be encountered in the design of a large flash distillation plant
R. Starmer, F.C. Thornley and J.A. Modet 3(1967)343-352

Characteristics of dual-purpose plants producing desalted water and electricity from the same thermal energy source *(in French)*
M. d'Orival 4(1968)66-79

Comparison of economic data of the main types of the desalting distillation plants
S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin 5(1968)29-33

Methodological aspects of technico-economic parameters of nuclear desalination plants
Y.I. Koryakin, A.A. Loginov and V.A. Chernyaev 7(1970)323-342

Hyperfiltration studies XVIII. The optimization of two-stage plants for desalination of brackish waters
J.J. Perona, T.W. Pickel and K.A. Kraus 8(1970)73-91

Optimization of an electrodialysis plant
G. Belfort and J.A. Daly 8(1970)153-166

Concerning the economic value of experimentation in the design of desalting plants
M. Tribus and J.P. Pezier 8(1970)311-349

The simulation and optimization of single effect multi-stage flash desalination plant
J.H. Beamer and D.J. Wilde 9(1971)259 -275

A computer method for engineering and economic evaluation of electrodialysis plants
M. Avriel and N. Zelingher 10(1972)113-146

Effect of brine disposal cost on hyperfiltration plant optimization
W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr. 11(1972)91-112

Multistage hyperfiltration plants for the desalination of brackish waters
J.J. Perona and R.S. Dillon 11(1972)149-163

Sea water desalination by reverse osmosis. Recent experience
P. Treille and J.M. Rovel 14(1974)21-31

Engineering development of hyperfiltration with dynamic membranes. Part IV. Economic analysis
D.G. Thomas 15(1974)343-369

The new look at dual-purpose plant design
T.E. Lindemuth and L. Awerbuch 17(1975)75-86

Estimating short-run operating costs for a reverse osmosis desalting plant
C.R. Scherer and M.C. Chan 18(1976)241-258

Practical aspects of sea water desalination by reverse osmosis
C.W. Saltonstall, Jr. 18(1976)315-320

Desalination in Australia: Operational experience and future prospects
L.G. Kemeny 18(1976)321-344

Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs
J.J. Allard, J.M. Rovel and P. Treille 19(1976)169-174

Distillation of seawater as a supplementary water resource
A.T. Hooper and H.B. Jackson 19(1976)241-256

Desalination through the vapour compression process in large plants
J.P. le Martret 19(1976)337-348

Reverse osmosis for Yuma desalting plant
R.G. Sudak and A.M. Desai 19(1976)389-396

Ion exchange pretreatment using desalting plant concentrate for regeneration
C. van Hoek, J.W. Kaakinen and L.A. Haugseth 19(1976)471-479

Dual purpose power/water plants utilizing both distillation and reverse osmosis
C.D. Hornburg and J.E. Cruver 20(1977)27-42

Report on the high flow rate long tube designed multistage flash evaporator test module
S. Toyama 22(1977)21-30

Solar-assisted still with vapor-compression option
B.W. Tleimat, E.D. Howe and A.D.K. Laird 22(1977)41-54

Economic evaluation of using small sized nuclear reactors for seawater desalination
P. Glueckstern and Y. Kantor 22(1977)101-110

High recovery reverse osmosis with strontium sulfate in a brackish well water source
G. Milton and D.H. Furukawa 22(1977)335-343

Cost comparison of effectively produced desalted water by different processes in a developing country
M. Aswed and H. El-Hares 23(1977)285-290

Some recent developments in sea water distillation carried out in France
F. Dubois, F. Lauro and J.J. Libert 23(1977)423-431

Second generation low temperature vapor compression plants
D. Hoffman 23(1977)449-454

On the optimization of systems with water reuse
Y.M. El-Sayed 23(1977)515-525

The Yuma desalting plant
M. Lopez 30(1979)15-21

Means by which reverse osmosis desalting costs can be substantially reduced well before the year 2000
S. S. Kremen 30(1979)59-68

Operating experiences of a 15,000 cubic meter per day municipal desalting plant at Corfu, Greece
J.W. Arnold 30(1979)145-153

Comparative economics of current and advanced desalting systems
P. Glueckstern 30(1979)223-234

Jeddah seawater reverse osmosis installation
C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton
30(1979)259-281

Reliability in estimating investment costs for large MSF-plants
H.E. Hoemig and B.R. Soeltner
30(1979)515-523

Analysis of very large MSF desalination units
D. Barba, A. Germana and G. Tagliaferri 30(1979)553-

Economic aspects of membrane processes
O.K. Buros 30(1979)595-603

Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant
S. C. May, E. H. Houle, S. A. Reed and W. F. Savage 30(1979)605-612

Toxicological aspects of scale preventative agents used in desalination equipment for drinking water by desalination
R. Leimgruber 30(1979)615-620, Err. 30(1979)401

Vapor compression distillation
S. J. Senatore 31(1979)135-144

Technical and economical evaluation of an MSF solar energy powered desalination plant
S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito 31(1979)443-455

Analysis of large desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 33(1980)1-10, Err. 30(1979)553

Absorption freezing vapor compression: process selection, pilot plant design, process economics
J.H. Fraser 33(1980)85-98

A comprehensive formal approach to the evaluation of bids for desalination plants using verbal judgment
R. Kenarangui, A. Husseiny and Z. Sabri 33(1980)311-331

Conceptual design aspects of reverse osmosis
D. Kuiper and M. Mendia
35(1980)273-289

Parametric study of cost factors in RO desalination GKSS plate ,system)
J. Kaschemekat and K.W. Böddeker
36(1981)75-85

A comparison of the relative economics of sea water desalination by vapour compression and reverse osmosis for small to medium capacity plants
R. Matz and U. Fisher
36(1981)137-151

Reverse osmosis in the desalination of brackish water and sea water
L. Ludwig 36(1981)153-178

Solar distillation: The solar-assisted case
J.P. Gerofi and G.G. Fenton
36(1981)189-204

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements
L. F. Giannuzzi, O. E. Horn and M. Nakhamkin 39(1981)437-446

Water requirements of an inland nuclear power station. Engineering and economic aspects
A. Beck and M. Schaal 40(1982)19-24

Solar energy as a source for production of power and desalinated water
A. Ophir and N. Nadav
40(1982)103-124

Ship-mounted seawater 2500 m^3/d flash evaporation plant for Abu Dhabi. Economical drinking water for arid regions
K. Wangnick 41(1982)171-180

Vapor compression distillation
S.J. Senatore 42(1982)153-161

Seawater vs. brackish water desalting: Technology, operating problems and overall economics
P. Glueckstern and Y. Kantor
44(1983)51-60

Floating desalination plants. An engineering, operating and economic appraisal
M. Fadel, K. Wangnick and N.M. Wade 45(1983)49-63

Solutions for coupling a mechanical vapour compression distiller with a multi-stage-flash evaporator
K. Genthner and M.M. El-Allawy
45(1983)143-152

Parametric study on seawater reverse osmosis desalting plants
R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen 46(1983)3-15

Water-softening by continuous counter-current ion-exchange single column technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 48(1983)281-292

A simple, more accurate criterion for economic evaluation of desalination projects
J. P. Gerofi and G. G. Fenton
49(1984)255-270

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady
49(1984)271-292

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 49(1984)293-319

Basic considerations influencing the choice of materials for thermal seawater desalination plants
R.F. Elsaesser and H.E. Hoemig
49(1984)335-345

Economics of MSF plants: Influence of variations in the design parameters and use of different construction materials
S. Arazzini, R. Borsani, G. Migliorini and U. Zuboli 52(1985)97-103

Economic comparison

Economics of multi-stage distillation in relation to conventional water supply
P.A. Mawer 2(1967)99-108

Technical and economical comparison between large capacity MSF and RO desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 76(1989)281-304

Economic scheduling of the UAN cogeneration plant: A preliminary optimization study
A.M. El-Nashar and M.S. Khan
85(1991)93-127

Survey of long time behavior and costs of industrial fluidized bed heat exchangers
R. Rautenbach and T. Katz
108(1996)335-344

Economic evaluation

Economical evaluation of organic moderated and cooled reactors (ROVI) designed to produce vapor for desalting plants
L. Lazzarino and R. Di Menza
2(1967)220-226

Economic evaluation of desalting sub-system as a part of the total water system
J.M. English and N. El-Ramly
3(1967)308-317

Direct contact vapor recompression evaporation desalination process. Economic assessment
K.L. Pinder 4(1968)45-54

Recent developments in electrodialysis at elevated temperatures
W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander
4(1968)236-247

Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
6(1969)131-152

Optimization of a single effect, multi-stage flash distillation desalination system
A.K. Coleman 9(1971)315-331

A computer method for engineering and economic evaluation of electrodialysis plants
M. Avriel and N. Zelingher
10(1972)113-146

Long term investment considerations of conjunctive desalting systems
J.M. English and N.A. Young
13(1973)359-371

Conjunctive use of desalination — A systems view for planning
N. El-Ramly 19(1976)534

A comparison of seawater desalination processes and their economics
K.C. Channabasappa
19(1976)535-554

Economic evaluation of using small sized nuclear reactors for seawater desalination
P. Glueckstern and Y. Kantor
22(1977)101-110

Field testing and economic evaluation of RO seawater technology
P. Glueckstern, M. Wilf and Y. Kantor 30(1979)235-245

Desalting seawater and brackish water: A cost update
T.J. Larson and G. Leitner
30(1979)525-539

A methodology for comparing water desalination to competitive fresh water transportation and treatment
S.P. Kasper and N. Lior 30(1979)541-552

Economic aspects of membrane processes
O.K. Buros 30(1979)595-603

Desalination at inland sites
A. Gendel 40(1982)135-142

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel
44(1983)61-72

Membrane filtration for the reuse of city waste water
O.J. Olsen and U.H. Haagensen
47(1983)257-265

A simple, more accurate criterion for economic evaluation of desalination projects
J. P. Gerofi and G. G. Fenton
49(1984)255-270

Technical and economic trends of sea water desalting in the '90s
L. Liberti, R. Passino, M. Santori and G. Boari 55(1985)503-514

Membrane distillation — An assessment
W.T. Hanbury and T. Hodgkiess
56(1985)287-297

Technical and economic evaluation of distillation and reverse osmosis desalination processes
N.M. Wade 93(1993)343-363

On the feasibility of large vapor-compression distillation units
Y.M. El-Sayed 107(1996)13-27

Economics

Absorption freezing vapor compression: process selection, pilot plant design, process economics
J.H. Fraser 33(1980)85-98

Comparative energy requirements and economics of desalting processes based on current and advanced technology
P. Glueckstern 40(1982)63-74

Improved pumping economics for seawater RO systems
D. C. Hallock 44(1983)99-100

A comparative study of the economics of RO and MSF in the Middle East
B. Ericsson and B. Hallmans
55(1985)441-459

Computer analysis justifies desalination
D. Stephenson 58(1986)155-167

Economic feasibility of the reverse osmosis process for seawater desalination
G. F. Leitner 63(1987)135-142

RO design optimization
N.M. Wade 64(1987)3-16

An economic comparison of 2 x1000 m^3/day desalination plants
H.W. Greig and J.W. Wearmouth
64(1987)17-50

Cost and economic analysis of Doha reverse osmosis plant (Kuwait)
S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah
64(1987)65-82

Energy consumptions and costs of different desalting systems
M. A. Darwish and N. M. Al-Najem
64(1987)83-96

Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study
P.K. Tewari, M.S. Hanra and M.P.S. Ramani 64(1987)203-210

The efficient use of energy in membrane distillation
A.G. Fane, R.W. Schofield and C.J.D. Fell 64(1987)231-243

Optimization for design of large RO seawater desalination plants
B. Ericsson, B. Hallmans and P. Vinberg 64(1987)459-489

The vacuum freezing multiple phase transformation process
C.Y. Cheng, W.C. Cheng and M.D. Yang 67(1987)139-153

Low temperature reject heat utilization for desalination, economical and technical aspects ultrafiltration membrane technology
B. Hausherr 67(1987)215-226

Economic aspects of low-temperature multi-effect desalination plants
Y.G. Caouris, E.T. Kantsos and N.G.Zagouras 71(1989)177-201

Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 72(1989)367-379

Prospects of hybrid RO-MSF desalting plants in Kuwait
A.M.R. Al-Marafie 72(1989)395-404

Feasibility of seawater desalination to solve water shortage problems of the Salina Cruz (Pemex) refinery
C.A. Fernández, B.H. Huerta and F.E. Latapí 73(1989)61-77

Performance ratio, area economy and economic return for an integrated solar energy/multi-stage flash desalination plant
D. Singh and S.K. Sharma 73(1989)191-195

Light gauge welded titanium tubes for seawater desalination plants
K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida 73(1989)429-446

Economic and technical factors affecting seawater reverse osmosis process design
T.E. Sulpizio, W.G. Light and J.L. Perlman 74(1989)187-201

Wastewater reclamation and reuse in Europe, Middle East and North Africa
A.A. Al-Khafaji and D.A. Howarth 75(1989)289-314

Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant
K. Hamby and James Chen 76(1989)3-14

Hybrid desalting systems
L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast 76(1989)189-197

Costs of seawater desalination in real terms, 1979 through 1989, and projections for 1999
G.F. Leitner 76(1989)201-213

Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m^3/d and 3,000 m^3/d
G. Fosselard and K. Wangnick 76(1989)215-240

Parametric cost analysis study of seawater reverse osmosis systems design in Kuwait
A.A.J. Al-Zubaidi 76(1989)241-280

Process arrangements for hybrid sea water desalination plants
I.Kamal, W. Schneider and G.F. Tusel 76(1989)323-335

Water supply challenge in the Gulf Region
A.A. Bushnak 78(1990)133-145

Economics of desalination for three plant sizes
A.A. Madani 78(1990)187-200

Engineering relations for economic production functions of solar low-temperature multi-effect desalination
N.G. Zagouras and E.T. Kantsos 78(1990)381-387

The effect of the recent energy cost increase on the relative water costs from RO and distillation plant
N.M. Wade 81(1991)3-18

1990 Worldwide desalting plants inventory. The development of the desalination market
K. Wangnick 81(1991)19-37

Economics of desalination in water resource management — A comparison of alternative water resources for arid/semi arid zones in developing countries
M.M. Tare, M.K. Gada, M.A. Siddiqui and M.H. Mehta 81(1991)57-76

Technoeconomic considerations in reverse osmotic concentration of seawater
D. Sambrailo and B. Kunst 81(1991)209-218

Operating results and economics of single stage and two stage large size sea water RO systems
S. Kremen, M. Wilf and P. Lange 82(1991)15-30

Variable speed turbo couplings used for speed control of pumps for seawater desalination plants
H. Burkard 82(1991)107-117

New sea water intake filtration system
M.M. Elarbash 82(1991)303-314

Improvements of conventional water intake system
M.M. Elarbash 82(1991)315-335

Studies on economic property of pretreatment process of brackish water using electrocoagulation (EC) method
S. Wang 82(1991)365-373

Fuel efficiencies, allocation of fuels and fuel costs for power and desalination in dual purpose plants: A novel methodology
M.N. Saeed 85(1992)213-229

The Puraq seawater desalination process — An update
L. Lazare 85(1992)345-360

Seawater desalting for Southern California: Technical and economic considerations
G. Hess, O.J. Morin and W.V. Carrigan 87(1992)55-68

Large-scale sea-water distillation for Southern California
R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr. and H.H. Sephton 87(1992)69-83

Developing and financing new water facilities: Alternatives for desalination and reclamation plants
N.C. Smith 87(1992)85-95

Financing groundwater desalination in Southern California
A. Sienkiewich 87(1992)175-180

Tourism development and desalination systems: Comparative analysis of systems' suitability for coastal areas of the Red Sea and Gulf of Aqaba, Egypt
S. El-Sadek and B. Mabrouk 88(1992)161-177

Power and water co-production feasibility study of Florida power and light power plants
M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters 88(1992)267-277

Potable water desalination in the U.S. Capital costs, operating costs and water selling prices
W. Leitner 88(1992)279-285

The water factory
Z. Zimerman 88(1992)371-379

The application of solar energy for large-scale seawater desalination
D. Hoffman 89(1992)115-184

Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration
H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz 90(1993)345-361

New strategies for economic optimal membrane fouling control based on dynamic optimization
A.J.B. Van Boxtel and Z.E.H. Otten 90(1993)363-377

Developments in saline water distillation technology
B. Tleimat and M. Tleimat 93(1993)15-42

The MSF desalination process and its prospects for the future
M.H. Ali El-Saie 93(1993)43-56

Factors affecting the useful economic life of large MSF distillers
I.D. McGregor and A. Barton 93(1993)387-395

Towards less expensive fresh water from the sea
M.G. Morsy 93(1993)397-408

Fuel economics: A comparative study of dual-purpose power and desalination plants in the WED grid based on a constant heat value of water
M.N. Saeed 93(1993)409-429

Experimental optimization of sponge ball cleaning system operation in Umm Al Nar MSF desalination plants
F. Al-Bakeri and H. El-Hares 94(1993)133-150

Development of large capacity high efficiency mechanical vapor compression (MVC) units
Z. Zimerman 96(1994)51-58

Evaporators made of solid duplex staintess steel. A new approach to reduced costs
J.O. Olsson and H.L. Groth 97(1994)67-76

Privatization as a financing alternative for desalination plants in Bahrain
A. Khater, S. Dannish and M. Al-Ansari 97(1994)281-290

Life cycle and present worth cost concepts, applicable for large desalting plants?
G.F. Leitner and W. Leitner 97(1994)291-300

Desalination using renewable energy sources
A. Hanafi 97(1994)339-352

Control of the nutrient pollution discharge from the Vistula River Basin in Poland
B. Ericsson and B. Hallmans 98(1994)185-197

Economics of brackish and desalination water reuse for irrigation
Z. Shimron 98(1994)471-478

Economics of seawater desalination by reverse osmosis
S. Ebrahim and M. Abdel-Jawad 99(1994)39-55

The part of the private sector in global water planning: The role of desalination
H.-D. von Löbbecke 100(1995)21-26

Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream
J.P. Brouwer, M.M.C. Alkemade and G. Bierman 101(1995)211-218

Economics, see Technoeconomics

Education

An undergraduate program in desalination
R. Bakish and W. Arthur 23(1977)291-298

Experiences from continuing education training in desalination
R. Bakish, E. Catanzaro and W. Arthur 30(1979)443-447

Education and training in desalination around the world
R. Bakish 39(1981)477-482

Education, postdoctorate

Twelve years of postgraduate education in desalination
W.T. Hanbury, W.S. McCartney, J. Cunningham and T. Hodgkiess 30(1979)449-459

Efficiency

The efficient use of energy in membrane distillation
A.G. Fane, R.W. Schofield and C.J.D. Fell 64(1987)231-243

Energy consumptions and costs with a multi-stage flashing (MSF) desalting system
M.A. Darwish, F.A. Yousef and N.M. Al-Najem 109(1997)285-302

Effluent reuse

The effect of the use of reclaimed water and high pressure effluent on plant operations at Hyperion Treatment Plant
K.K. Dean 88(1992)331-340

Regulatory framework in South Australia and reclaimed water reuse options and possibilities
N.M. Kayaalp 106(1996)317-322

Wastewater reuse studies and trials in Canberra
J. Neal 106(1996)399-405

Effluent treatment

Membranes separations technology for industrial effluent treatment — A review
P.S. Cartwright 56(1985)17-35

Treatment of uranium containing effluents with reverse osmosis process
Kwanglung Lin, Minlin Chu and Muchang Shieh 61(l987)121-136

Water and effluent water treatment using reverse osmosis
R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani 67(1987)507-521

Effluents

Influence of desalination effluents on marine ecosystems
H. Winters, I. R. Isquith and R. Bakish 30(1979)403-410

Health considerations in using treated industrial and municipal effluents for irrigation
M.Y. Abdulraheem 72(1989)81-113

Concentration by UF of hazardous effluents extracted into emulsions from water solutions; examples with aniline and azobenzene
M. Nyström 81(1991)117-127

Electrodialytic desalination of effluents from zinc-coating processes: Removal of Zn^{2+} and Cl^- ions from model solutions
G. Wisniewska and T. Winnicki 84(1991)163-176

Ejectocompression

Advantages of the ejectocompression process in sea water desalination
M. Lucas and S. Hessemans 38(1981)57-63

High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator
T. Michels and F. Murat 66(1987)69-74

Electric arc furnaces

MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry
R. Rautenbach, P. Monheim and D. Zebrowski 31(1979)197-206

Electric field

Application of cross-flow electro-microfiltration in chromium wastewater treatment
C. Visvanathan, R. Ben Aim and S. Vigneswaran 71(1989)265-276

Electric resistance

Electric resistance of ion-exchange membranes in dilute solutions
K. Urano, Y. Masaki and M. Kawabata 58(1986)171-176

Increase in electric resistance of ion exchange membranes by fouling with naphthalenemonosulfonate
K. Urano, Y. Masaki and Y. Naito 58(1986)177-186

Electrical energy

Relationship between desalination processes and electric energy generation
L. Gasparini 40(1982)395-400

ENEL experience of seawater desalination plants
A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi 108(1996)345-355

Electricity production

Available electricity loss for low grade heat
M. Schaal 40(1982)77-85

Production of electrical power from concentrated brines
N. Nadav and A. Ophir 40(1982)197-211

Electro-osmosis

Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water
R.P. Rastogi, K. Singh and B.M. Misra 3(1967)32-36

A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models
R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson 17(1975)313-324

Polarization in unit cells
G. Garza 24(1978)211-223

Electroanalytical methods

Rapid batch and continuous electroanalysis for the chloride ion
R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey 9(1971)333-350

Electrochemical behavior

Further developments in the high temperature electrodialysis
T. Bejarano, C. Forgacs and J. Rabinowitz 3(1967)129-134

Electrochemical behaviour of Al-brass in natural seawater
K. Habib and A. Amin 85(1992)275-282

Electrochemical behavior of a high strength nickel-based alloy in H_2SO_4
K. Habib 93(1993)537-544

Electrochemical methods

An electrochemical method for monitoring the oxygen content of aqueous streams at the part-per-billion level
R.E. Meyer, F.A. Posey and P.M. Lantz 11(1972)329-340

Electrochemical studies on sea water applied to desalination
M.K.V. Nair, B.M. Misra and D.G. Vartak 42(1982)199-207

The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water
A.E. Simpson and C.A. Buckley 67(1987)409-429

Electrochemical monitoring of the process of boiler cleaning
A.M. Shams El Din and A.M.K. Tag El Din 75(1989)171-184

Electrochemical behavior of copper-nickel alloys in sulphide polluted seawater at moderate temperatures
K. Habib 89(1992)41-46

Electrocoagulation

Experimental studies on pretreatment process of brackish water using electrocoagulation (EC) method
Wang Sanfan and Wang Qinlai 66(1987)353-364

Studies on economic property of pretreatment process of brackish water using electrocoagulation (EC) method
S. Wang 82(1991)365-373

Electrocoating

Alclose reverse osmosis system
S. Koga and K. Ushikoshi 23(1977)105-112

Electrodes

Demineralization behavior of carbon and chemically-modified carbon electrodes
G.W. Murphy and J.H. Tucker
1(1966)247-259

Electrolytic scale formation in sea water distillation systems
M.K.V. Nair and B.M. Misra
25(1978)263-268

Electrode for electrodialysis
Jingxu Qu and Shumin Liu
46(1983)233-242

Ultrafiltration applications
A.-S. Jönsson and G. Trägårdh
77(1990)135-179

Electrodialyser

Low electrical consumption electrodialyser filling ion-exchange conducting spacers
Weida Jiang and Dong Li
54(1985)197-206

Experimental study of flow distribution features in the electrodialyzer
Xuewen Zhong, Weirun Zhang, Zhaoying Hu and Hungchai Li
56(1985)413-419

A new type of electrodialyzer
J. Weida 96(1994)127-132

Electrodialysis

Inorganic ion-exchange membranes and their application to electrodialysis
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 1(1966)231-246

Further progress in electrodialysis
G.S. Solt 2(1967)21-24

Concentration polarization effect in ion exchange membrane electrodialysis
T. Yamabe and M. Seno
2(1967)148-153

Demineralization of sea water by electrodialysis
T. Matsuda, S. Ogama and Y. Onoue
3(1967)295-303

Transfer rates in electrodialysis with ion exchange membranes
A. Kitamoto and Y. Takashima
9(1971)51-87

An experimental study of electrodialysis hydrodynamics
G. Belfort and G.A. Guter
10(1972)221-262

A turbulent flow theory of electrodialysis
R.F. Probstein, A.A. Sonin and E. Gur-Arie 11(1972)165-187

Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants
R.B. Hodgdon, E. Witt and S.S. Alexander 13(1973)105-127

Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off
M. Metayer, C. Bourdillon and E. Selegny 13(1973)129-146

Reduction of polarization in electrodialysis by ion-conducting spacers
O. Kedem 16(1975)105, Err. 17(1975)143

Formation of alkaline scale in heating brine obtained by the ion-exchange membrane method
S. Sugita 17(1975)231-237

Desalting saline ground water for agriculture
Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar 19(1976)175-188

Demineralization by electrodialysis
K.P. Govindan and P.K. Narayanan
19(1976)229-239

Ion conducting spacer for improved electrodialysis
O. Kedem and Y. Maoz
19(1976)465-470

Present status of electrodialysis process in Japan
K. Urano 20(1977)365-374

Present status of electrodialysis in Japan
T. Yamabe 23(1977)195-202

Electrodialysis in advanced waste water treatment
E. Korngold, K. Kock and H. Strathmann 24(1978)129-139

Seawater desalination by electrodialysis
T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa 25(1978)1-7

The origin and elimination of water splitting in ion exchange membranes during water demineralisation by electrodialysis
R. Simons 28(1979)41-42

Electrodialysis of effluents from treatment of metallic surfaces
S. Itoi 28(1979)193-205

Electrodialysis on the American continent
A. L. Goldstein 30(1979)49-58

Water desalination — A perspective for membrane processes in India
D.J. Mehta, A.V. Rao and K.P. Govindan 30(1979)325-335

Electrodialytic recovery process of metal finishing waste water
S. Itoi, I. Nakamura and T. Kawahara
32(1980)383-389

Demineralization by electrodialysis using ampholytic ion-conducting spacers
K.P. Govindan and P.K. Narayanan
38(1981)517-527

Desalination of sea water by an electrodialysis-reverse osmosis hybrid system
H. Schmoldt, H. Strathmann and J. Kaschemekat 38(1981)567-582

Engineering design of a 6000 m^3/day seawater hybrid RO-ED helio-desalting plant
A.A. Husseiny and H.L. Hamester
39(1981)171-172

Desalination by ED and EDR. State-of-the-art in 1981
W.E. Katz 42(1982)129-139

Heat regime of ion-exchange membranes' performance
A.M. Kusavsky and V.P. Shulika
46(1983)203-210

An absorption-desorption stack for cyclic electrodialysis in open system
M.E. Abu Goukh and D.W. Thompson
46(1983)211-223

Optimization of electrodialysis process at elevated temperatures
V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
46(1983)253-262

Fouling in steady and unsteady state electrodialysis
D.W. Thompson and A.-Y. Tremblay 47(1983)181-188

The performance of cyclic and steady-state electrodialysis separation processes in the presence of iron (II) fouling
D.W. Thompson and A.Y. Tremblay 48(1983)121-132

Elimination of acid-base generation ('water-splitting') in electrodialysis
I. Rubinstein, A. Warshawsky, L. Schechtman and O. Kedem 51(1984)55-60

Recovery of acid from wastewater by electrodialysis
K. Urano, T. Ase and Y. Naito 51(1984)213-226

Measurements and control in electrodialysis
F.B. Leitz 59(1986)381-401

The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis
Xue Deming, Song Dezheng and Liu Xiaoying 62(1987)251-257

An experimental study for separation of NaCl from SAS by electrodialysis with ion exchange membranes
Qu Jing-Xu, Qian Yao-Nan and Shen Yan-Zhang 64(1987)329 -338

A graphical method for the design of an electrodialysis stack
F. Evangelista 64(1987)353-365

Cleaning low mineral water by electrodialysis
V. I. Demkin, Y. A. Tubashov, V. I. Panteleev and Y. V. Karlin 64(1987)367 -374

Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs
R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes 65(1987)241-258

An electrodialysis sea water desalination system powered by photovoltaic cells
O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh 67(1987)33 -41

Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert
M. R. Adiga, S. K. Adhikary, P. K. Narayanan, W. P. Harkare, S. D. Gomkale and K. P. Govindan 67(1987)59 . -66

Demineralization of a molasses distillery waste water
F.G. Neytzell-de Wilde 67(1987)481-493

Water transport during the concentration of waste zinc sulfate solutions by electrodialysis
R. Audinos and S. Paci 67(1987)523-545

Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids
R. Oláh and K. Vadasdi 67(1987)547-557

Aquatech membrane technology for recovery of acid/base values from salt streams
K.N. Mani, F.P. Chlanda and C.H. Byszewski 68(1988)149-166

Nitrate removal by electrodialysis for brewing water
K. Kneifel, G. Lührs and H. Wagner 68(1988)203-209

Role of the membrane surface in concentration polarization at ion-exchange membrane
I. Rubinstein, E. Staude and O. Kedem 69(1988)101-114

Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater by electrodialysis
S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan 69(1988)261-273

An analytical method for design of electrodialysis stacks operated at high concentrations
D. Barba, F. Evangelista, G. Jonsson and L. Marrelli 71(1989)137-149

Defluoridation during desalination of brackish water by electrodialysis
S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan 71(1989)301-312

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Desalination and recovery of catalysts by electrodialysis
S. Sridhar 79(1990)233-247

Development of an anion-exchange membrane with increased permeability for organic acids of high molecular weight
W. Gudernatsch, C. Krumbholz and H. Strathmann 79(1990)249-260

Desalination of brackish groundwater for a prairie community using electrodialysis reversal
R.C. Harries, D. Elyanow, D.N. Heshka and K.L. Fischer 84(1991)109-121

Seeding technique for "zero-discharge" processes, adaption to electrodialysis
R. Rautenbach and R. Habbe 84(1991)153-161

The application of inorganic membranes to electrodialysis processes
D.A. White, R. Labayru, H.R. Obermoller and X. Deryde 84(1991)177-188

Desalination of brackish water of higher salinity by electrodialysis
S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar 84(1991)189-200

Performance of the first sea water electrodialysis desalination plant in India
P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar 84(1991)201-211

Removal of nitrate by electrodialysis
V.K. Indusekhar, G.S. Trivedi and B.G. Shah 84(1991)213-221

Organic matter removal from natural waters by electrodialysis demineralization
I. Dobrevsky and S. Pavlova 86(1992)43-48

Characteristic of the critical state of membranes in ED-desalination of milk whey
M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
86(1992)173-186

Preferential transport of nickel and cupric ions through cation exchange membrane in electrodialysis with a complex agent
Tingchia Huang and Jaukai Wang
86(1992)257-271

Recovery of acid and water by membrane dialysis
G. Wisniewska, J. Wisniewski and T. Winnicki 91(1993)307-317

Electrodialysis of hydrochloric acid
A. Lindheimer, M. Boudet-Dumy and C. Gavach 94(1993)151-165

Theoretical studies on the separation of different ionic species of the same charge sign using cascaded electrodialysis with reflux
H. Ohya, A. Hakamaya, Y. Hiraoka and Y. Negishi 94(1993)167-199

Analysis of an electrodialysis unit on the basis of irreversible thermodynamics
S. Koter 95(1994)139-153

The development of a new electrodialysis system for brackish water
T. Hamano, P.B. Chebi, L. Gerdes and T.D. Wolfe 96(1994)23-31

Desalination for landfill leachates containing condensed inorganic salts
T. Kawanishi, S. Matsumoto, Y. Horii and M. Masuzaki 97(1994)415-425

Solar photovoltaic desalination of brackish water in remote areas by electrodualysis
N. Ishimaru 98(1994)485-493

Early days in electrodialysis
G. Solt 100(1995)15 -19

Utilization of coal mine brines in the chlorine production process
M. Turek, J. Mrowiec-Bialon and W. Gnot 101(1995)57 -67

Spirally wound electrodialysis (SpED) modules
T. Wen, G.S. Solt and Y.F. Sun
101(1995)79 -91

Elimination of nitrate from drinking water by electrochemical membrane processes
K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
101(1995)123-131

Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons
A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach
101(1995)141-153

Water recovery from etching effluents for the purpose of rinsing stainless steel
J. Wisniewski and S. Suder
101(1995)245-253

Modelling the cross flow spirally wound electrodialysis (SpED) process
T. Wen, G.S. Solt and Y.F. Sun
103(1995)165-176

The characteristics of citric acid separation using electrodialysis with bipolar membranes
S. Novalic, J. Okwor and K.D. Kulbe
105(1996)277-282

Reduction of melassigenic ions in cane sugar juice by electrodialysis
M.O. El-Khattabi, M.R.A. Hafidi and A. El-Midaoui 107(1996)149-157

Development of electrodialysis with bipolar membrane for the treatment of concentrated nitrate effluents
S. Graillon, F. Persin, G. Pourcelly and C. Gavach 107(1996)159-169

Prediction of the behavior of long electrodialysis desalination channels through testing short channels
V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko
107(1996)245-250

Choosing the electrodialyzer design and hydraulic modes for demineralization of dilute solutions
N.D. Pismenskaya, E.V. Laktionov, V.V. Nikonenko and V.I. Zabolotsky
108(1996)149-152

Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept
V. Mavrov, H. Chmiel, B. Heitele and F. Rögener 108(1996)159-166

Electrodialysis technology for deep demineralization of surface and ground water
V.I. Zabolotsky, V.V. Nikonenko, N.D. Pismenskaya and A.G. Istoshin
108(1996)179-181

Acids and iron salts removal from rinsing water after metal etching
J. Wisniewski and G. Wisniewska
109(1997)187-193

Transport mechanism of sulphuric acid through an anion exchange membrane
Y. Lorrain, G. Pourcelly and C. Gavach 109(1997)231-239

Electrodialysis cell

The shape of the cell and the velocity field in electrodialysis desalination
D. Pnueli 7(1970)309-322

Effect of characterizations of spacer in electrodialysis cells on mass transfer
X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li 46(1983)243-252

Electrodialysis equipment

Hydraulic principles for the design of electrodialysis desalination plants
V.A. Klyachko and L.D. Ushakov
2(1967)279-282

French experience in the exploitation of electrodialysis apparatus *(in French)*
C. Gomella 2(1967)283-286

Ionic membrane electrodialyzer for marine use
S. Itoi 2(1967)378-386

Compact apparatus for sea water desalination by electrodialysis using ion-exchange membranes
Y. Tsunoda and M. Kato
3(1967)66-81

Electrodialysis desalination: New units
J. Lemaignen 3(1967)203-206

Electrodialytic demineralization of brackish waters by using inorganic ion-exchange membranes
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 5(1968)371-390

A mathematical model for the flow in an electrodialysis cell
D. Pnueli and G. Grossman
6(1969)303-308

Behaviour of an electrodialysis unit cell
L.J. Mas, P.M. Pierrard, P.A. Prax and J.C. Sohm 7(1970)285-296

A mathematical model for the concentration field in an electrodialysis cell
D. Pnueli and G. Grossman 7(1970)297-308

The shape of the cell and the velocity field in electrodialysis desalination
D. Pnueli 7(1970)309-322

An experimental study of electrodialysis hydrodynamics
G. Belfort and G.A. Guter 10(1972)221-262

The mapping of Faradic efficiencies in large electrodialysis units
C. Forgacs 10(1972)287-291

High temperature electrodialysis
F.B. Leitz, M.A. Accomazzo and W.A. McRae 14(1974)33-41

Electrodialysis processes using ion-exchange resins between membranes
E. Korngold 16(1975)225-233

Large electrodialysis stack development
E.J. Parsi 19(1976)139-151

Present status of electrodialysis process in Japan
K. Urano 20(1977)365-374

Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale
O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike 22(1977)515-524

New electrodialyser system with automatic chemical cleaning
M. Kishi, S. Serizawa and M. Nakano 23(1977)203-212

The development of a new electrodialyzer for desalination
T. Kawahara, K. Asada and T. Ishida 23(1977)213-221

A simple electrodialysis stack
O. Kedem, G. Tanny and Y. Maoz 24(1978)313-319

Mass transfer in the U-turn of an electrodialyzer
In Ho Kim, In Soek Kang and Ho Nam Chang 33(1980)139-161

Electrodialysis in the regeneration of paper mill spent liquor
K. Radhamohan and S. Basu 33(1980)185-200

Desalting 36,000 ppm well water with electrodialysis: a 5-year report
H. C. Valcour, Jr. and K. D. McElhinney 38(1981)529-536

Energy-saving electrodialyzer for sea water desalination
T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi 38(1981)583

Electrodialysis unit: Optimization and calculation of energy requirements
E. Korngold 40(1982)171-179

A consideration on flow distribution in an ion exchange compartment with spacer
H. Miyoshi, T. Fukumoto and T. Kataoka 42(1982)47-55

Desalination of brackish water by electrodialysis
W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan 42(1982)97-105

The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions
N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov 46(1983)197-201

An absorption-desorption stack for cyclic electrodialysis in open system
M.E. Abu Goukh and D.W. Thompson 46(1983)211-223

Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer
O. Kuroda, S. Takahashi and M. Nomura 46(1983)225-232

Electrode for electrodialysis
Jingxu Qu and Shumin Liu 46(1983)233-242

The calculation of limiting current density of electrodialysis under the influence of water quality and temperature
Song Xu-Tong and Chen Guang 46(1983)263-274

Technological account of electrodialysis apparatus for concentration
V.N. Smagin, V.A. Chukhin and V.A. Kharchuck 46(1983)283-290

EDS: sealed cell electrodialysis
O. Kedem, J. Cohen, A. Warshawsky and N. Kahana 46(1983)291-299

Desalination and reuse of industrial wastewater by electrodialysis
K. Sato, S. Kobayashi and S. Okado 47(1983)363-373

An equation for estimating the diffusion coefficient of electrolytes in ion-exchange membranes
H. Miyoshi, T. Fukumoto and T. Kataoka 48(1983)43-54

The performance of cyclic and steady-state electrodialysis separation processes in the presence of iron (II) fouling
D.W. Thompson and A.Y. Tremblay 48(1983)121-132

Electrodialysis membranes

Preferential chloride-sulfate ion transport in electrodialysis using tetra-allylammonium chloride membranes prepared by a modified method
H. Schweigart 2(1967)154-160

Vinyl-substituted silica gel membranes *(in German)*
F. Runge 3(1967)304-307

Recent developments in electrodialysis at elevated temperatures
W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander 4(1968)236-247

Neutrality-disturbance phenomenon of membrane-solution systems
Y. Oda and T. Yawataya 5(1968)129-138

Investigation of inorganic ion exchange membranes for electrodialysis
H.K. Bishop, J.A. Bittles and G.A. Guter 6(1969)369-380

Preparation and laboratory evaluation of cellulose-based ion permselective membranes
A. Süszer, E. Bandel and M. Flitman 7(1969)47-50

Polarization at ion-exchange membranes in electrodialysis
C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler 10(1972)181-214

A study on the transport behavior of cations in ion exchange membrane electrodialysis
Tingchia Huang and Tentsai Wang 21(1977)327-340

Application of selective membranes in grape juice stabilization
G. Niketic-Aleksic and M.M. Jaksic 35(1980)317-327

Recent advances in reverse osmosis and electrodialysis membrane desalting technology
M. E. Mattson and M. Lew 41(1982)1-24

Edge effects and orientation effects in electrodialysis
Q. Li, Y. Fang and M.E. Green 41(1982)47-55

Laboratory investigation on electrodialytic desalination of brackish water
G. Wisniewska, B. Cieploch and T. Winnicki 46(1983)275-281

Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents
B. Chakravorty, R. N. Mukherjee and S. Basu 46(1983)353-360

Characterization of electrodialysis membranes by chronopotentiometry
R. Audinos and G. Pichelin 68(1988)251-264

Concentration polarization and water splitting at electrodialysis membranes
V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright 91(1993)225-252

Electrodialysis membranes, fouling

Fouling of anion-selective membranes in electrodialysis
E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch 8(1970)195-220

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

Experimental study of the effects of hydrodynamics and membrane fouling in electrodialysis
G. Grossman and A.A. Sonin 10(1972)157-180

Membrane fouling in electrodialysis: A model and experiments
G. Grossman and A.A. Sonin 12(1973)107 -125

Electrodialysis, model studies

Leakage currents in electrodialytic desalting and brine production
W.G.B. Mandersloot and R.E. Hicks 1(1966)178-193

An electrical analogue for electrodialysis
G. Belfort and G.A. Guter 5(1968)267-291

A hydrodynamic theory of desalination by electrodialysis
A.A. Sonin and R.F. Probstein 5(1968)293-329, Err. 6(1969)270

A mathematical model for the flow in an electrodialysis cell
D. Pnueli and G. Grossman 6(1969)303-308

A mathematical model for the concentration field in an electrodialysis cell
D. Pnueli and G. Grossman 7(1970)297-308

An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh
A. Solan, Y. Winograd and U. Katz 9(1971)89-95

Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system
O. Kedem, I. Rubinstein and L.A. Segel 27(1978)143-156

Electrodialysis plants

Application of solar energy to the solution of some problems of electrodialysis
R. Matz and E.M. Feist 2(1967)116-124

Hydraulic principles for the design of electrodialysis desalination plants
V.A. Klyachko and L.D. Ushakov 2(1967)279-282

Optimization of an electrodialysis plant
G. Belfort and J.A. Daly 8(1970)153-166

A computer method for engineering and economic evaluation of electrodialysis plants
M. Avriel and N. Zelingher 10(1972)113-146

The electrodialysis — ion exchange demonstration plant at Brindisi
V. Balice, G. Boari, M. Santori and G. Tiravanti 19(1976)447-464

Seawater desalting by electrodialysis
T. Miwa, D.R. Jordan and W.F. McIlhenny 20(1977)375-384

Electrodialysis plant at Hatsushima
K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada 21(1977)45-50

Practical behaviour of electrodialysis and reverse osmosis plants in Libya
H. El-Hares and M. Aswed 22(1977)291-298

New electrodialyser system with automatic chemical cleaning
M. Kishi, S. Serizawa and M. Nakano 23(1977)203-212

Fresh water from the sea: a 380 cubic meter per day high temperature electrodialysis plant
W.A. McRae, E.J. Parsi and G.C. Ganzi 23(1977)401-408

Application of membrane processes for water supply in Israel
P. Glueckstern, Y. Kantor and M. Wilf 24(1978)365-376

Maintenance problems of the electrodialysis plants in Libya
M. Aswed and H. El Hares 27(1978)51-57

Economic aspects of membrane processes
O.K. Buros 30(1979)595-603

Water desalting by solar powered electrodialysis
J. E. Lundstrom 31(1979)469-488

Desalting sea water to less than 4 ppm by electrodialysis
J.E. Lundstrom 32(1980)259-277

Desalting 36,000 ppm well water with electrodialysis: a 5-year report
H. C. Valcour, Jr. and K. D. McElhinney 38(1981)529-536

Treating Bahrain Zone C groundwater using the EDR process
D.R. Brown 38(1981)537-547

Performance evaluation and process design of an electrodialysis plant by overpotential measurements
R. Passino, C. Marra, A. Rozzi and G. Tiravanti 41(1982)181-197

Desalination of brackish water by electrodialysis
W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan 42(1982)97-105

Design and field trials of a 200 m^3/day sea water desalination by electrodialysis
Song Shi and Pei-qi Chen 46(1983)191-196

Operating experience of EDU-series electrodialysis plants used in different industries in the USSR
L.A. Shishliannikov and F.B. Alzhanov 58(1986)77-83

Construction and operation experience of a large-scale electrodialysis water desalination plant
T. Kawahara 96(1994)341-348

Electrodialysis reversal

The electrodialysis reversal (EDR) process
W.E. Katz 28(1979)31-40

Operating experiences of a 15,000 cubic meter per day municipal desalting plant at Corfu, Greece
J.W. Arnold 30(1979)145-153

Treating Bahrain Zone C groundwater using the EDR process
D.R. Brown 38(1981)537-547

Parametric tests of an electrodialysis reversal (EDR) system with aliphatic anion membranes
D. Elyanow, R.G. Parent and J.R. Mahoney 38(1981)549-565

Desalination by ED and EDR. State-of-the-art in 1981
W.E. Katz 42(1982)129-139

Electrode for electrodialysis
Jingxu Qu and Shumin Liu 46(1983)233-242

Recent applications of EDR
H.C. Valcour, Jr. 54(1985)163-183

Study on electrodialysis reversal (EDR) process
Fubao Yao et al. 56(1985)315-324

Desalination and reuse of power plant effluents: From pilot plant to full scale application
C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom 67(1987)255-269

Desalination and concentration of flue gas scrubber effluents using the electrodialysis reversal process
D. Elyanow and J. Mahoney 67(1987)283-298

Pilot investigation on the treatment of fertilizer manufacturing process effluent using lime and electrodialysis reversal
J.J. Schoeman, I.J.M. Buys, I.B. Schutte and H. MacLeod 70(1988)407-429

Reclaiming reverse osmosis blowdown with electrodialysis reversal
E.R. Reahl 78(1990)77-89

Selection, design and procurement of a demineralization system for a surface water treatment plant
J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis 88(1992)3-31

EDR - Water treatment - Desalination on the prairies
D. Heshka 88(1992)109-121

Electrodialysis reversal in water reuse applications
R.P. Allison 103(1995)11-18

Electrodialytic decarbonation

electrodialytic removal of carbonates from seawater
H. U. Müller and H. Strathmann 47(1983)201-208

Electrodialytic method

Advances in the electrochemistry of permselective membranes
D. Kertész, F. de Körösy and E. Zeigerson 2(1967)161-169

Electrodialytic desalination of effluents from zinc-coating processes: Removal of Zn^{2+} and Cl^- ions from model solutions
G. Wisniewska and T. Winnicki 84(1991)163-176

Electroflotation

An iIntegrated industrial waste water treatment system using electroflotation and reverse osmosis
H.P. Roth and P.V. Ferguson 23(1977)49-63

Electrohydrodynamics

Electrohydrodynamic enhancement of evaporation from NaCl solutions
N.N. Barthakur 78(1990)455-465

Electrokinetic charge

Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer
M. Elimelech, W.H. Chen and J.J. Waypa 95(1994)269-286

Electrolysis

The use of electrolysis to generate "flashing nuclei"
J.C. Drake 6(1969)335-336

Development of water re-use treatment system for municipal wastewater
T. Sawa, M. Kubota, S. Takahashi and Y. Masaki 32(1980)373-382

The electrochemical way of removing the hardness of water
A. Bannoud 93(1993)545-555

Some experiments on flash evaporation enhancement by electrolytically generated bubbles
N. Lior and E. Nishiyama 100(1995)71-76

Towards a sludgeless heavy metal finishing industry for a cleaner environment
N.H.A. Hamid and A. Idris 106(1996)411-413

Electrolyte nanofiltration

Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place Zr(IV) hydrous oxide-PAA membranes. II. NaCl-water solutions
D. Szaniawska and H.G. Spencer 101(1995)31 -38

Electrolyte separation

RO transport properties of several electrolytes through homogeneous CA membrane
Y. Kurokawa, Y. Mashiko and S. Saito 58(1986)19-32

Electrolyte solutions

Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: Theoretical calculation of the osmotic coefficient
C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
10(1972)263-272

A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models
R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson 17(1975)313-324

The distribution of electrolytes between cellulose acetate membranes and aqueous solutions
E. Glueckauf 18(1976)155-172

An equation for estimating the diffusion coefficient of electrolytes in ion-exchange membranes
H. Miyoshi, T. Fukumoto and T. Kataoka 48(1983)43-54

Electrolyte exclusion model for hyperfiltration of electrolyte solutions by charged gel membranes
H. G. Spencer 52(1984)1-8

Activity coefficients in aqueous multicomponent electrolyte solutions from ambient to 200°C
D. Barba, V. Brandani, G. Del Re and G. Di Giacomo 65(1987)113-121

Ion passages in the hyperfiltration of mixed co-ion electrolyte solutions by a membrane containing fixed charges
K.S. Menon and H.G. Spencer 69(1988)115-123

Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures
T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura 81(1991)219-227

Electrolytes

A new method for measuring diffusion coefficients of electrolytes in nonionic membranes
C.W. Saltonstall, Jr., W.M. King and D.L. Hoernschemeyer 4(1968)309-327

Electrolytic deposition for scale control in sea water distillation
M.K.V. Nair and B.M. Misra 27(1978)59-64

Uptake of electrolytes by cellulose acetate membranes
G. Mossa and R. Passino 46(1983)417-424

Concentration and recovery dependence of hyperfiltration system rejection of electrolytes by ion exchange membranes
H.G. Spencer, D.B. McClellan, N.D. Ellis, D.A. Jernigan and D.N. Mahony 61(1987)17-26

Electromembrane processes

Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane
D. Raucq, G. Pourcelly and C. Gavach 91(1993)163-175

Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis
S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov 104(1996)107-111

Electromigration

Transport within ion-exchange membranes
R.A. Wallace and J.P. Ampaya 14(1974)121-134

Electromotive force

Electromotive force and impedance studies of cellulose acetate membranes: Evidence for two binding sites for divalent cations and for an alveolar structure of the skin layer
T.S. Sørensen, J.B. Jensen and B. Malmgren-Hansen 80(1991)293-327

Electron microscopy

Replication electron microscopy of cellulose acetate osmotic membranes
R.L. Riley, U. Merten and J.O. Gardner 1(1966)30-34

Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy
H.K. Plummer, Jr., C.D. Melvin and E. Eichen 15(1974)93-108

Electroosmosis

Rapid filtration of non-electrolytes by electroosmosis
A. Zelman, D. Walsh, H. Wayt and D. Gisser 25(1978)253-261

Electropermutation

Continuous electropermutation with ion-exchange textiles
S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach 104(1996)227-233

Electrophoresis

Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water
R.P. Rastogi, K. Singh and B.M. Misra 3(1967)32-36

Electroplating

Heavy metals in wastewater to the Nile
S. El-Rafei, S. El-Shawarby and F.A. Fahim 67(1987)355-362

Electroplating rinse waste water treatment by ion exchange
I. Dobrevsky, M. Dimova-Todorova and T. Panayotova 108(1996)277-280

Electrosorption

Development and evaluation of the electrosorption process for the desalination of water
R.E. Lacey and E.W. Lang 2(1967)387-393

Electrostatic phenomena

Electrostatic phenomena in ion exchange membranes
S. D'Alessandro and A. Tantillo 9(1971)225-234

Electrostatically enhanced evaporation rates of saline water
N.N. Barthakur 74(1989)339-353

EMF measurements

EMF measurements for selectivity determinations of highly selective membranes. Comparison of a flow-cell method and the membrane-strip method
J.C.T. Kwak 11(1972)61-69

Emulsion break-down

An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage
Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun 62(1987)323-328

Emulsion formation

The stability of supported liquid membranes
A.M. Neplenbroek, D. Bargeman and C.A. Smolders 79(1990)303-312

Emulsion paint

Modelling of the ultrafiltration of electrophoretic emulsion paint
M. Bodzek and K. Konieczny 94(1994)261-272

Endotoxin

A membrane for removing endotoxins from aqueous solutions
N.A. Karamian and P.F. Waters 17(1975)329-338

Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone
D. Düputell, E. Staude and D. Wyszynski 95(1994)75-89

Energy

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Efficient energy utilization in single purpose desalination plants
S.E. Aly 58(1986)99-112

The efficient use of energy in membrane distillation
A.G. Fane, R.W. Schofield and C.J.D. Fell 64(1987)231-243

Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis
V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli 78(1990)257-277

Salt-gradient solar ponds from concentrated subsurface agricultural drainage waters of the San Joaquin Valley, California
D.W.J. Hayes and J.A.L. Kipps 88(1992)301-309

An MSF evaporator for the UANW 9 and 10 power station. Design considerations based on energy and exergy
A.M. El-Nashar 97(1994)253-279

Methodology for estimating saving of primary energy with membrane operations in industrial processes
R. Molinari, R. Gagliardi and E. Drioli 100(1995)125-137

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat 107(1996)111-119

Energy consumption

Seawater desalination: A low energy consuming solution: vapor compression *(in French)*
P. Blanc-Feraud 30(1979)469-482

Membrane processes for water supply and reuse — A question of energy consumption and cost
B. Ericsson 35(1980)401-421

Energy consumption and operational aspects of on load ball cleaning systems
K. Eimer 38(1981)201

Energy-saving electrodialyzer for sea water desalination
T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi 38(1981)583

Present and future energy aspects in VC, MED single and dual purpose desalination plants
J. Weinberg and U. Fisher 40(1982)49-61

Distillation and reverse osmosis: Energy consumption and costs
N.M. Wade and M.R. Hornsby 40(1982)245-257

Considerations of energy consumption in desalination by reverse osmosis
A. B. Riedinger and C. E. Hickman 40(1982)259-270

Energy advantages of reverse osmosis in seawater desalination
C.T. Sackinger 40(1982) 271-281

Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys
S. Toyama, Y. Nakashima and M. Sato 40(1982)297-309

Investment costs and energy consumption of the MSF/FBE in comparison with the MSF
J.P.P. Tholen 40(1982)341-345

Seawater reverse osmosis with energy recovery
W.A.G. Hoeting 40(1982)357-361

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Relationship between desalination processes and electric energy generation
L. Gasparini 40(1982)395-400

Seawater desalination with very low energy consumption
L. Cavalieri and G. Nasser 44(1983)143-151

Optimal water cost from solar-powered multieffect distillation
B.W. Tleimat 44(1983)153-165

Testing RO desalination at very high recoveries in the Arabian Gulf (GKSS plate system)
K. Scharff 60(1986)117-133

Critical comparison between energy consumption in large capacity reverse osmosis (RO) and multistage flash (MSF) seawater desalting plants
M.A. Darwish 63(1987)143-161

RO design optimization
N.M. Wade 64(1987)3-16

Energy consumptions and costs of different desalting systems
M. A. Darwish and N. M. Al-Najem 64(1987)83-96

Cogeneration power-desalination plants
M. A. Darwish 69(1988)27-46

Thermal analysis of vapor compression desalination system
M.A. Darwish 69(1988)275-295

A combined RO/freezing system to reduce inland rejected brine
A.A. Madani and S.E. Aly 75(1989)241-258

Desalination of brackish water of higher salinity by electrodialysis
S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
84(1991)189-200

Increased water production using a heat recovery engine for "Direct Drive" VARI-RO™ Pumping
W.D. Childs and A.E. Dabiri
96(1994)81-88

Energy consumptions and costs with a multi-stage flashing (MSF) desalting system
M.A. Darwish, F.A. Yousef and N.M. Al-Najem 109(1997)285-302

Energy efficiency

Energy saving and desalination of water
A.A. Mesa, C.M. Gómez and R.U. Azpitarte 108(1996)43-50

Design of the maximum energy efficiency desalination plant (PAME)
A.A. Mesa, C.M. Gómez and R.U. Azpitarte 108(1996)111-116

Energy production

Desalinated water production at LNG terminals
A. Antonelli 45(1983)383-390

Some investigations on the possibility of using ocean thermal gradient (OTG) for seawater desalination
G. Damy and J. Marvaldi
67(1987)197-214

Energy recovery

Hydraulic turbine energy recovery — RO system
R. Singh and S.V. Cabibbo
32(1980)281-296

The application of Pelton type impulse turbines for energy recovery on sea water reverse osmosis systems
D. J. Woodcock and I. Morgan White
39(1981)447-458

Seawater reverse osmosis with energy recovery
W.A.G. Hoeting 40(1982)357-361

A specific energy recovery pumping system for reverse osmosis desalination
P. Goubeau and P. Leroy
44(1983)199-206

Optimized matching of solar photovoltaic power with reverse osmosis desalination
B.G. Keefer, R.D. Hembree and F.C. Schrack 54(1985)89-103

Energy recovery pumps in reverse osmosis desalination plants
P. Goubeau 54(1985)117-126

The use of Pelton wheel turbines for energy recovery in reverse osmosis systems
W. Wilson, A. Gruendisch and I. Calder-Potts 65(1987)231-240

New concepts in energy savings and process control for desalination plants using reverse osmosis
E. Fredkin 65(1987)321-330

A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems
M.A. Darwish, M. Abdel-Jawad and L.J. Hauge 75(1989)25-39

Evaluation of a pressure boosting pump/turbine device for reverse osmosis energy recovery: Extended testing on a seawater desalination system
M. Silbernagel, T. Kuepper and E. Oklejas 88(1992)311-319

Energy requirements

A distillation process without energy consumption *(in French)*
W. Bongard 30(1979)583-593

Solar distillation: The solar-assisted case
J.P. Gerofi and G.G. Fenton
36(1981)189-204

Comparative energy requirements and economics of desalting processes based on current and advanced technology
P. Glueckstern 40(1982)63-74

Preliminary considerations of combining a large reverse osmosis plant with the Mediterranean — Dead Sea project
P. Glueckstern 40(1982)143-156

Electrodialysis unit: Optimization and calculation of energy requirements
E. Korngold 40(1982)171-179

A comparison of desalting processes from an energy point of view
M. Morris 40(1982)237-244

An evaluation of the energy requirements of desalination processes on the basis of the fuel use performance ratio
I. Kamal and G.F. Tusel
40(1982)283-295

Seawater desalting energy requirements as a function of various local conditions
A. C. F. Ammerlaan 40(1982)317-326

Desalination and energy
J. J. Libert 40(1982)401-406

Reverse osmosis in seawater concentration
D. Sambrailo, B. Kunst and H. Ivekovic 46(1983)125-133

Laboratory investigation on electrodialytic desalination of brackish water
G. Wisniewska, B. Cieploch and T. Winnicki 46(1983)275-281

Energy savings in distillation plants by using vapor thermo-compression
S. E. Aly 49(1984)37-56

Water production in Kuwait - Its management and economics
A.M.R. Al-Marafie and M.A. Darwish 71(1989) 45-55

Energy sources

Prospects of the exploitation of advanced energy resources in water production in the Middle East
Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal 20(1977)279-287

Desalination using new energy sources *(in French)*
A. Maurel 31(1979)489-499

Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects
G. Petersen, S. Fries, J. Mohn and A. Müller 31(1979)501-509

Solar operated, multiflash distillation
H.Z. Tabor 33(1980)221-224

An introduction to new energy sources for desalination
O.K. Buros 39(1981)37-41

Desalination and renewable energies: a few recent developments
J. J. Libert and A. Maurel
39(1981)363-372

Trends in the application of solar energy to water desalination
R. A. Brosh 40(1982)95-102

Solar energy as a source for production of power and desalinated water
A. Ophir and N. Nadav
40(1982)103-124

Preliminary considerations of combining a large reverse osmosis plant with the Mediterranean — Dead Sea project
P. Glueckstern 40(1982)143-156

Recent developments in the utilization of salinity power
C. Forgacs 40(1982)191-195

Production of electrical power from concentrated brines
N. Nadav and A. Ophir
40(1982)197-211

A comparison of desalting processes from an energy point of view
M. Morris 40(1982)237-244

Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant
A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
44(1983)17-27

Pressurized heavy water reactor desalination in the Indian context
P.K. Tewari, R.K. Verma and M.P.S. Ramani 95(1994)299-306

Energy supply

Fresh water, energy, and food from the sea and the sun
D.F. Othmer 17(1975)193-214

Energy and water supply, Orange County, California
D.G. Argo 25(1978)135-149

Seawater desalination with very low energy consumption
L. Cavalieri and G. Nasser
44(1983)143-151

Optimal water cost from solar-powered multieffect distillation
B.W. Tleimat 44(1983)153-165

Engineering aspects

Chemical engineering aspects of the reverse osmosis process
K.D.B. Johnson, J.R. Grover and D. Pepper 2(1967)40-55

An engineering analysis of piezodialysis
F.B. Leitz and W.A. McRae
10(1972)293-307

Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia
A.M. El-Nashar and A.A. Husseiny
19(1976)189-199

Environmental and engineering problems of an agro-industrial complex for the North Eastern region of the Mediterranean
F. Elashmawi and A.A. Husseiny
20(1977)289-298

Bluehills desalination plant — Engineering investigation
O.J. Morin 22(1977)13-20

Engineering and process experience deriving from various solutions in the design of MSF evaporators
D. Barba 33(1980)11-20

Potential for water reuse in conjunction with desalination systems
R.M. Ahlgren 75(1989)315-328

Robust control with engineering applications: An overview
A. Ismail 92(1993)57-78

Engineering development

Engineering developments in the OSW program
J.A. Hunter 3(1967)384-391

Engineering development of hyperfiltration with dynamic membranes. Part I. Process and module development
D.G. Thomas and W.R. Mixon
15(1974)287-323

Engineering development of hyperfiltration with dynamic membranes. Part II. Brackish water pretreatment pilot plant
J.D. Sheppard and D.G. Thomas
15(1974)307-323

Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed
D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard
15(1974)325-341

Engineering development of hyperfiltration with dynamic membranes. Part IV. Economic analysis
D.G. Thomas 15(1974)343-369

Enthalpy

Enthalpies of aqueous sodium chloride solutions from 32 to 350°F
A.M. Rowe, Jr. and James C. S. Chou
6(1969)105-115

Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants
V. Slesarenko and A. Shtim
71(1989)203-210

Entrainment

Entrainment-tests on VIFE
K.G. Plassmeier 38(1981)153

Entropy

Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants
V. Slesarenko and A. Shtim
71(1989)203-210

Environment

Environmental problems of siting and operating desalination plants in the United States
M. Morris 30(1979)3

Influence of desalination effluents on marine ecosystems
H. Winters, I. R. Isquith and R. Bakish
30(1979)403-410

Environmental problems of siting and operating desalination plants in the United States
F. Carlson 30(1979)425

Desalination and the environment *(in French)*
J.-J. Libert, A. Maurel and R. Lucas
30(1979)427-435

Technological and environmental aspects of desalination
R.S. Silver 42(1982)1-9

Measurements and control in flash evaporator plants
F.A. Drake 59(1986)241-262

The application of membranes in environmental protection
Liu Ting-hui 62(1987)149-164

Solutions for problems in corrosion and environmental impact on 2x3000 m^3/d MSF desalination plants
Xu Kejun, Wang Schichang and Yang Yaozhong 97(1994)159-164

Durability of concrete structures in the hostile service environment of desalination plants
L. Awerbuch and M.A. Daye 97(1994)221-232

Ocean brine disposal
J.V. Del Bene, G. Jirka and J. Largier 97(1994)365-372

Electricity and water production in the Emirate of Abu Dhabi and its impact on the environment
A.M. Shams El Din, S. Aziz and B. Makkawi 97(1994)373-388

The lethal effect of hypertonic solutions and avoidance of marine organisms in relation to the discharged brine from a desalination plant
S. Iso, S. Suizu and A. Maejima 97(1994)389-399

Environmental impact of waste brine disposal of desalination plants, Red Sea, Egypt
B. Mabrook 97(1994)453-465

Elements of environmental impact studies on coastal desalination plants
T. Höpner and J. Windelberg 108(1996)11-18

Enzyme

Membrane processes combined with enzymatic reactions: an experimental study
E. Drioli, M. Mendia and R. Molinari 24(1978)193-209

Membrane technology and biotechnology
A.S. Michaels 35(1980)329-351

Biocatalysis by membrane-attached enzymes and whole microbial cells
K. Venkatsubramanian 35(1980)353-363

Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose
B. Hägerdal, M. López-Leiva and B. Mattiasson 35(1980)365-373

Scale-up of membrane fixed enzyme reactors: Modelling and experiments
J.E. Prenosil and T. Hediger 53(1985)265-278

Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations
Chen Jiayan, Wang Liancheng and Zhu Zhengyu 86(1992)301-315

Epoxide-copolymer solvent

The Puraq seawater desalination process
L. Lazare 42(1982)11-16

Epoxy lining

Corrosion control of feeders carrying potable water from desalination of sea water. Case of the Yanbu Medina water supply system (Saudi Arabia)
P. Leroy 44(1983)317-324

Equilibrium

A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening
D. Barba, V. Brandani and P. U. Foscolo 48(1983)133-146

Determination of a liquid state from that of liquid solution coupled to it by a common vapor phase
L.C. Dickey and J.C. Craig, Jr. 78(1990)397-401

Equipment

Diffusion doublet research
Y. Henderyckx 3(1967)237-242

An apparatus for desalination with ion-exchange resins
V.R. Ginde and C. Chu 10(1972)309-317

The development of enhanced heat transfer condenser tubing
I.H. Newson and T.D. Hodgson 14(1974)291-323

Theoretical analysis of horizontal condenser-evaporator conduits of various cross-sections
S. Sideman, D. Moalem and R. Semiat 17(1975)167-192

Design criteria for the Yuma desalting plant
F.B. Leitz and E.I. Ewoldsen 24(1978)321-340

Reliability analysis of desalination equipment
A. Unione, E. Burns and A. Husseiny 32(1980)225-237

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf
T.G. Temperley 33(1980)99-107

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf (Letter to the Editor)
K. Hill 34(1980)325-326

Optimal selection of major equipment in dual purpose plants
E. Gabbrielli 36(1981)1-23

Instrumentation problems in Libyan desalination plants
H. El-Hares 39(1981)33-

Technological account of electrodialysis apparatus for concentration
V.N. Smagin, V.A. Chukhin and V.A. Kharchuck 46(1983)283-290

Measurements and control in flash evaporator plants
F.A. Drake 59(1986)241-262

Measurements and control in freeze desalination plants
W.J. Hahn 59(1986)321-341

Erosion

Bluehills desalination plant — Engineering investigation
O.J. Morin 22(1977)13-20

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand
N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio 38(1981)223-231

Comments on erosion-corrosion of copper alloy C72200 in seawater containing suspended sand
C.J. Gaffoglio 42(1982)345-349

Ethanol

Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose
B. Hägerdal, M. López-Leiva and B. Mattiasson 35(1980)365-373

Removal of ethanol from aqueous streams by pervaporation
H.E.A. Brüschke 77(1990)323-329

Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures
M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya
80(1991)139-158

Ethanol-glucose, separation

Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation
M.N. de Pinho 68(1988)211-221

Ethanol-water mixtures

Membrane for ethanol-water separation: Water selective membrane
A. Kaji and M. Murano
54(1985)351-359

Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolef in) membrane by pervaporation method
I. Terada, M. Nakamura and M. Nakao 70(1988)455-463

Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol
E. Oikawa, M. Shingai, K. Motomi and T. Aoki 101(1995)69 -77

Eutectic freezing

Development of a eutectic freezing process for brine disposal
G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson
15(1974)25-38

Temperatures required for eutectic freezing of natural waters
A.J. Barduhn and A. Manudhane
28(1979)233-241

Zero-discharge direct-contact freezing/solar evaporator desalination complex
A.A. Madani 85(1992)179-195

EVAC criterion

A simple, more accurate criterion for economic evaluation of desalination projects
J. P. Gerofi and G. G. Fenton
49(1984)255-270

Evapomeation

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

Evaporation

Reviewing the evaporation coefficient
K. Hickman 1(1966)13-29

Submerged combustion
P.A. Iyer and Chieh Chu 9(1971)19-31

Study of the flash mechanism in complex geometry *(in French)*
G. Coury, J.C. Deronzier and J. Huyghe 12(1973)295-313

Waste concentration vs. evaporation ponds for reverse osmosis reject water. A case study
G.F. Leitner 44(1983)31-38

The effect of gas bubbles on flash evaporation
N. Lior and E. Nishiyama
45(1983)231-240

Control of two-phase evaporating flows
S.J. Ball 59(1986)199-217

Asymmetric membrane formation. Is the evaporation step necessary?
D. Sambrailo and B. Kunst
64(1987)321-328

Development of flashing flow model for box type orifice
M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori
65(1987)57-62

Studies on the behaviour of high performance multiple-effect-stack processes
R. Rautenbach and J. Gebel
65(1987)75-85

Phase inversion in plane membranes. II. A direct comparison between experiments and evaporation model predictions
C. Castellari 69(1988)223-234

Environmental policies at the national and regional levels: The role of EPC, GCC and ROPME
M.Y. Abdulraheem 72(1989)225-233

The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures
M.A. Darwish, N.M. Al Najem, T. Froment and J. de Gunzbourg
74(1989)277-288

Disposal of concentrates from brackish water desalting plants by means of evaporation technology
L. Awerbuch and M.C. Weekes
78(1990)71-76

Electrohydrodynamic enhancement of evaporation from NaCl solutions
N.N. Barthakur 78(1990)455-465

Evaporation of olive oil mill vegetation waters
G. Di Giacomo, V. Brandani and D. Del Re 81(1991)249-259

Diluted brine concentration process using membrane pervaporation technique: Laboratory scale studies
Jin Sheng and M.S. Lefebvre
91(1993)253-263

Enhanced evaporation of saline water in multi-purpose solar desalination units
H.K. Abdel-Aal and M.A. Al-Naafa
93(1993)557-562

Evaluation of reverse osmosis and evaporative desalination systems under feedwater supply constraints typical in arid countries
S.N. Talati 97(1994)353-361

Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream
J.P. Brouwer, M.M.C. Alkemade and G. Bierman 101(1995)211-218

Evaporation of water from agitated freezing slurries at low pressure
L.C. Dickey 104(1996)155-163

Evaporation heat transfer in liquid films flowing down horizontal smooth and longitudinally profiled tubes
J.V. Putilin, V.L. Podbereznyi and V.G. Rifert 105(1996)165-170

Nanofiltration in the utilization of coal-mine brines
M. Turek and M. Gonet
108(1996)171-177

Evaporator

Multiple-effect rotating evaporator
L.A. Bromley 1(1966)367-393

Possible use of single-effect evaporation and factors affecting their performance *(in German)*
W. Rosner 2(1967)368-377

Scale formation as related to evaporator surface conditions
R.H. Rankin and W.L. Adamson
13(1973)63-87, Err. 13(1973)63

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf
T.G. Temperley 33(1980)99-107

Heat transfer in a rotating disk evaporator
C. S. Wang, R. Greif and A. D. K. Laird 33(1980)259-267

Performance tests on a vertical tube evaporator
B. Kunst 38(1981)149

On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types
S. I. Golub, V. V. Iljushchenko, S. V. Grigorenko, U. V. Kartowsky and N. K. Tokmantsev 44(1983)137-142

Application of improved high-performance evaporator
M. Takada and J. C. Drake
45(1983)3-12

Preliminary design and energy analysis of evaporative desalination cascades
S.C. Bikos and J.R. Flower
81(1991)483-503

Developments in saline water distillation technology
B. Tleimat and M. Tleimat
93(1993)15-42

The effects and limitations issued by non-condensible gases in sea water distillers
K. Genthner, A. Gregorzewski and A. Seifert 93(1993)207-234

Simulation model for desalting HTME-type evaporators
M. Elmethnani 97(1994)541-545

Adaptation of the multi-effect distillation (MED) process to yield high purity distillate for utilities, refineries and chemical industry
A. Ophir and A. Gendel
98(1994)383-390

A general tool for a better use of design or verification of mathematical models
E. Ghiazza and F. Giovani
105(1996)51-56

Modernizing the desalination industry
R.P. Hammond 107(1996)101-109

Cost effective evaporators for desalination
H. Jaakkola 108(1996)357-360

Evaporator design

The optimal design of multi-stage flash evaporators by dynamic programming
S. Itahara and L.I. Stiel
4(1968)248-257

Design, construction and operation of a combined MSF/VTE-test evaporator
J. Hapke and A. Mader
45(1983)35-36

Five years experience in VTE industrial operations and their design improvements
P. Tiraboschi 45(1983)321-328

Evaporator performance

Performance tests on a vertical tube evaporator
B. Kunst 38(1981)149

Vertical tube foam evaporation for water desalination
H.H. Sephton 42(1982)27-35

Evaporator shell

Experience with a vertical tube evaporator with a fiberglass shell *(in Spanish)*
E. Latapí Fox 19(1976)25-34

Utilization of cement concrete as an evaporator shell material
Y. Nojiri and K. Fujii 19(1976)45-54

Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities
Y. Tazawa, Y. Nojiri and K. Fujii
22(1977)111-120

Exchange crystallization freeze desalination

The exchange crystallization freeze desalination process
D.W. Johnson, J.L. Lott and C.M. Sliepcevich 18(1976)231-240

Exchange equilibria

Exchange equilibria on anion resins
G. Boari, L. Liberti, C. Merli and R. Passino 15(1974)145-166

Exchange isotherm

Binary and ternary ion-exchange equilibria, SO_4^{2-}—Cl^-—NO_3^-—201 x 7 system
Tao Zuyi and Zhou Haimei
69(1988)125-134

Exergenic efficiency

Exergy analysis of major recirculating multi-stage flash desalting plants in Saudi Arabia
F.A. Al-Sulaiman and B. Ismail
103(1995)265-270

Exergetic efficiency

The exergetic efficiency of MSF process and the conditions of desalination by waste heat
Shichang Wang 44(1983)39-49

Exergy

Energy losses in a flash evaporator
L.W. Koot 5(1968)331-348

Thermodynamic analysis
K. S. Spiegler 44(1983)3-16

Exergy analysis of multi-stage desalination plants
V.N. Slesarenko and A.S. Shtim
61(1987)1-5

Cost allocation for electricity and water for the Umm Al Nar West cogeneration plant using the energy accounting method
A.M. El-Nashar 71(1989)57-71

Cost allocation of electricity and water in a cogeneration plant
A.M. El-Nashar 85(1992)197-212

Second-law analysis of recirculating multi-stage flash desalting system
M.A. Darwish, N.M. Al-Najem and M.S. Al-Ahmad 89(1993)289-309

An MSF evaporator for the UANW 9 and 10 power station. Design considerations based on energy and exergy
A.M. El-Nashar 97(1994)253-279

Exhaust gases

High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator
T. Michels and F. Murat 66(1987)69-74

Exhaust-steam temperature

On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants
R. Rautenbach and E. Ghafour 31(1979)521-532

Expert systems

Advances in the methodologies of optimal thermal design
Y.M. El-Sayed 92(1993)79-101

Mathematical modelling and expert systems integration for optimum control strategy of MSF desalination plants
B. Fumagalli and E. Ghiazza 92(1993)281-293

Extended Nernst-Planck equations

Some remarks on the integration of the extended Nernst-Planck equations in the hyperfiltration of multicomponent solutions
L. Dresner 10(1972)27-46

Falling film evaporators

Calcium sulphate scaling in falling film evaporators
T.D. Hodgson, M.N. Elliot and T.W.J. Jordan 14(1974)77-91

Scale deposition from an evaporating falling film
E. Gazit and D. Hasson 17(1975)339-351

Boiling of natural sea water in falling film evaporators
V.C. van der Mast, S.M. Read and L.A. Bromley 18(1976)71-94, Err. 18(1976)217

The falling film MSF evaporator
F.C. Standiford 19(1976)35-43

Research and development of multi-effect horizontal tube film evaporator
K. Edahiro, T. Hamada, M. Arai and Y. Hirao 22(1977)121-130

Corrosion under heat flux encountered in desalination plant
S. Kido and T. Shinohara 22(1977)369-378

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Study of thermo-physical characteristics of thin film desalination plants
V. Slesarenko and V. Gydarov 30(1979)375-383

Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators
J. J. Schröder, P. Fast and W. Sander-Beuermann 31(1979)19-34

Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant
T.R. Blake and G. Willocks 39(1981)311-322

Operation of MEFF (multiple effect falling film process) desalination plant
S. Kido 41(1982)127-136

Computer simulations of multiple-effect FFE-VC systems for water desalination
G. Aly 45(1983)119-131

Parametric study on falling-film seawater desalination
G. Aly, A. Al-Haddad and M. Abdel-Jawad 65(1987)43-55

Simulation of the performance of MES evaporators under unsteady state operating conditions
A.M. El-Nashar and A. Qamhiyeh 79(1990)65-83

Falling films

RF-FF VTE evaporator
W. Nishimoto 22(1977)1-11

Operation of MEFF (multiple effect falling film process) desalination plant
S. Kido 41(1982)127-136

Computer simulation of the horizontal falling film desalination plant
H. T. El-Dessouky and G. M. R. Assassa 55(1985)119-138

Influence of the flow system on the inhibitory action of $CaCO_3$ scale prevention additives
D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat 108(1996)67-79

Faradic efficiencies

The mapping of Faradic efficiencies in large electrodialysis units
C. Forgacs 10(1972)287-291

Fast neutron reactor

Nuclear industrial desalination plant with fast neutron reactor at Shevchenko
E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S.

Fat globules damage

Concentration of raw whole milk by reverse osmosis and its influence on fat globules
R. de Boer and P.F.C. Nooy 35(1980)201-211

Fault tree analysis

Reliability analysis of desalination equipment
A. Unione, E. Burns and A. Husseiny 32(1980)225-237

Reliability of MSF processes based on operation history
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 41(1982)81-113

Feed velocities

Membrane fouling. Part IV. Parallel operation of four tubular hyperfiltration modules at different velocities with feeds of high fouling potential
J.D. Sheppard, D.G. Thomas and K.C. Channabasappa 11(1972)385-398

Feedwater

The effect of a magnetic field on steam purity
M. Yovchev 11(1972)379-384

An ion-exchange process with thermal regeneration. XIII. Treatment of feedwater containing bicarbonate by adjustment of the pH of the regenerant with carbon dioxide
S.D. Hamann and N.H. Pilkington 28(1979)43-64

The modified fouling index, a method of determining the fouling characteristics of water
J.C. Schippers and J. Verdouw 32(1980)137-148

An integrated self sufficient multipurpose plant for seawater desalination
K. Kuenstle and G. Brunner 39(1981)459-474

Capacity adaption of reverse osmosis systems by temperature and pressure control of the raw water
K. Heybach 44(1983)85-90

Some results of the investigations on corrosion protection of desalination plant equipment
A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko 44(1983)233-239

Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities
J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter 48(1983)293-297

Reverse osmosis TFC magnum elements for chlorinated/dechlorinated feedwater processing
W.G. Light, H.C. Chu and C.N. Tran 64(1987)411-421

Ultrapure water system design considerations
P. S. Cartwright 67(1987)171-184

A mathematical model of the cyclic operation of desalination-feedwater softening by ion-exchange with fluidized-bed regeneration
P. Shain, G. Klein and T. Vermeulen 69(1988)135-146

Monitoring of organic compounds in feed and product water samples from MSF plants in the eastern coast of Saudi Arabia
P.C. Mayankutty, A.A. Nomani and T.S. Thankachan 74(1989)243-257

Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India
P.K. Tewari, S. Prabhakar and M.P.S. Ramani 79(1990)85-93

Evaluation of reverse osmosis and evaporative desalination systems under feedwater supply constraints typical in arid countries
S.N. Talati 97(1994)353-361

Antiscale magnetic pretreatment of reverse osmosis feedwater
J.S. Baker, S.J. Judd and S.A. Parsons 110(1997)151-166

Feedwater, see Pretreatment, feedwater

Ferric hydroxide deposition

About the mechanism of formation of iron hydroxide fouling layers on reverse osmotic membranes
J.M. Jackson and D. Landolt 12(1973)361-378

Ferroan dolomite

Effect of iron and copper during scale suppression by threshold compounds
J. Block, B.M. Watson, L.A. Burkholder and B. Albano 15(1974)279-286

Ferrous ions

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with calcium, magnesium and ferrous ions at various temperatures
M. Iovchev 52(1985)285-293

Fertilizer effluent treatment

Pilot investigation on the treatment of fertilizer manufacturing process effluent using lime and electrodialysis reversal
J.J. Schoeman, I.J.M. Buys, I.B. Schutte and H. MacLeod 70(1988)407-429

Fiber bundle performance

Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance
W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi 38(1981)301-318

Fiberglass shell

Experience with a vertical tube evaporator with a fiberglass shell *(in Spanish)*
E. Latapí Fox 19(1976)25-34

Field tests

Design and field tests of a new membrane distillation desalination process
S.-I. Andersson, N. Kjellander and B. Rodesjö 56(1985)345-354

Design and field tests of a membrane distillation system for seawater desalination
N. Kjellander 61(1987)237-244

Film breakdown

Wettability and break-up of thin films on inclined surfaces with continuous and intermittent feed
D. Moalem-Maron, G. Ingel and N. Brauner 42(1982)87-96

Wettability, rewettability and breakdown of thin films of aqueous salt solutions
N. Brauner, D. Moalem-Maron and Z. Harel 52(1985)295-307

Film coefficients

Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II
T.G. Somer and C. Özgen 34(1980)249-265

Film condensation

Experimental study of film condensation on horizontal grooved tubes
A. F. Mills, G. L. Hubbard, R. K. James and C. Tan 16(1975)121-133

Simultaneous film evaporation and condensation on a two-directionally inclined surface
D. Moalem, S. Sideman and R. Semiat 21(1977)51-58

Performance improvement of horizontal evaporator-condenser desalination units
S. Sideman, D. Moalem and R. Semiat 21(1977)221-233

Enhanced film condensation of steam on spirally fluted tubes
N.H. Aly and S.D. Bedrose 101(1995)295-301

Film evaporator, horizontal tube

Research and development of multi-effect horizontal tube film evaporator
K. Edahiro, T. Hamada, M. Arai and Y. Hirao 22(1977)121-130

Dripping characteristics in a horizontal tube film evaporator
D. Maron-Moalem, S. Sideman and A.E. Dukler 27(1978)117-127

Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes
S. Sideman and A. Levin 31(1979)7-18

Calcium sulphate scale removal during operation in horizontal tube film evaporators
J. Moisse 38(1981)169-174

Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design
V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin 45(1983)15-21

Film evaporators

Simultaneous film evaporation and condensation on a two-directionally inclined surface
D. Moalem, S. Sideman and R. Semiat 21(1977)51-58

Performance improvement of horizontal evaporator-condenser desalination units
S. Sideman, D. Moalem and R. Semiat 21(1977)221-233

Dripping characteristics in a horizontal tube film evaporator
D. Maron-Moalem, S. Sideman and A.E. Dukler 27(1978)117-127

Study of thermo-physical characteristics of thin film desalination plants
V. Slesarenko and V. Gydarov 30(1979)375-383

Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes
S. Sideman and A. Levin 31(1979)7-18

Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes
S. Sideman and A. Levin 31(1979)7-18

Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators
J. J. Schröder, P. Fast and W. Sander-Beuermann 31(1979)19-34

Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow
V. Slesarenko 33(1980)251-257

Heat transfer in a rotating disk evaporator
C. S. Wang, R. Greif and A. D. K. Laird 33(1980)259-267

Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design
V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin 45(1983)15-21

Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations
V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny 81(1991)367-381

Enhanced solar still performance using water film cooling of the glass cover
B.A.K. Abu-Hijleh 107(1996)235-244

Film inhibiting

The problem of "red waters": A new approach to its solution
A.M. Shams El Din 60(1986)75-88

Film theory

Estimation of mass transfer coefficient using a combined nonlinear membrane transport and film theory model
Z.V.P. Murthy and S.K. Gupta 109(1997)39-49

Film thickening, oxide

Oxide film thickening on some molybdenum-containing stainless steels used in desalination plants
A. M. Shams El Din and N. J. Paul 69(1988)251-260

FILMTEC

Development and experience in seawater applications with the new seawater FILMTEC reverse osmosis membrane
J.A. Redondo 105(1996)71-78

Experiences with the pretreatment of raw water with high fouling potential for reverse osmosis plant using FILMTEC membranes
J.A. Redondo and I. Lomax 110(1997)167-182

Filtration

Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes
J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona 5(1968)359-369

Rapid filtration of non-electrolytes by electroosmosis
A. Zelman, D. Walsh, H. Wayt and D. Gisser 25(1978)253-261

Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis
T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino 32(1980)93-101

Debris separators and filters for different desalination systems
H. Boehmer and F.J. Glaze 55(1985)559-569

Experience and results on the operation of the common pretreatment at DROP
J. Grigoleit and B. Schöttler 63(1987)209-215

Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production
I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova 67(1987)163-170

Predicted performance profiles along a long-tube cross-flow microfiltration system
V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal 71(1989)247-264

Application of cross-flow electro-microfiltration in chromium wastewater treatment
C. Visvanathan, R. Ben Aim and S. Vigneswaran 71(1989)265-276

Harvest of microbial suspensions by microfiltration
B. Reismeier, K.H. Kroner and M.-R. Kula 77(1990)219-233

New sea water intake filtration system
M.M. Elarbash 82(1991)303-314

Effect of ionic environment on BSA filtration and the properties of BSA deposits
S.P. Palecek, S. Mochizuki and A.L. Zydney 90(1993)147-159

Removal of phosphorus from secondary effluent by a matrix filter
M. El-Hoz and L.W. Apperley 106(1996)247-253

New solutions for construction of pressure-driven membrane equipment
F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova 108(1996)315-324

Financing

Long term investment considerations of conjunctive desalting systems
J.M. English and N.A. Young 13(1973)359-371

Project financing of desalination facilities
A. Wenner and E.F. Feo 102(1995)119-153

Innovative independent power plant financing applied to desalination projects
D.F. Walden and M. Goren 102(1995)155-161

Innovative wastewater reclamation financing applied to desalination projects
D.G. Houston 102(1995)163-169

Private sector development of desalination facilities
A. Wenner 107(1996)1-11

Fine thickness cells

Industrial applications of the aqualyzer electrodialysis process using fine thickness cells
A. Bonnin and F. Linnhoff 68(1988)265-277

Finite mesh spacer

An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh
A. Solan, Y. Winograd and U. Katz 9(1971)89-95

Fishing industry

Applications of crossflow membrane technology in the fishing industry
K.A. Almås 53(1985)167-180

Fixed charge model

Hyperfiltration in charged membranes: the fixed charge model
E. Hoffer and O. Kedem 2(1967)25-39

Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion
G. Belfort and J. Scherfig 18(1976)43-58

Flash boiling

Nucleation in the flash boiling of sea water
W.T. Hanbury and W. McCartney 14(1974)217-228

Flash chamber design

A low temperature model for equilibration rates in flashing-flow and its design implications
A. Porteous 6(1969)337-347

Heat transfer and fluid flow characteristics in flash desalination units
E. E. Khalil, M. M. Hilal, M. F. El-Fouly and H. Z. El-Mogy 39(1981)283-294

Flash chambers

Study of the flash mechanism in complex geometry *(in French)*
G. Coury, J.C. Deronzier and J. Huyghe 12(1973)295-313

Flashing flow of water in conduits between chambers in MSF units
A.A. Rizk, M.A. Darwish and S.M. El-Haggar 20(1977)299-318

Corrosion considerations in selecting metals for flash chambers
J. W. Oldfield and B. Todd 31(1979)365-383

Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf
H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin 78(1990)327-341

Flash distillation, see Distillation, Flash

Flash evaporation

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Energy losses in a flash evaporator
L.W. Koot 5(1968)331-348

The use of electrolysis to generate "flashing nuclei"
J.C. Drake 6(1969)335-336

The effect of hydraulic jump on the performance of a single-stage flash evaporator
A.H. Abdelmessih and I.C. Hsu 19(1976)65-74

Comparison between the use of a baffle and a wire mesh in flashing units
M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky 19(1976)83-92

Flashing in desalination units
M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky 19(1976)93-101

A system for the experimental study of flash evaporation
N. Lior and R. Greif 31(1979)87-99

Some basic observations on heat transfer and evaporation in the horizontal flash evaporator
N. Lior and R. Greif
33(1980)269-286

An experimental study of spray flash evaporation
O. Miyatake, T. Tomimura, Y. Ide and T. Fujii 36(1981)113-128

Effect of liquid temperature on spray flash evaporation
O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii 37(1981)351-366

A controlled flash evaporator operated by a vapour compressor
L. Szücs 45(1983)13-14

The effect of gas bubbles on flash evaporation
N. Lior and E. Nishiyama
45(1983)231-240

Formulas for calculating the approach to equilibrium in open channel flash evaporators for saline water
N. Lior 60(1986)223-249

An experimental study of flash evaporation from liquid pools
S. Gopalakrishna, V.M. Purushothaman and N. Lior
65(1987)139-151

Comparative study of flash evaporation rates
O. Miyatake 96(1994)163-171

Some experiments on flash evaporation enhancement by electrolytically generated bubbles
N. Lior and E. Nishiyama
100(1995)71-76

Flash evaporation plants

Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants
T. Sawa, K. Izumi and S. Takahashi
19(1976)369-380

Ten years operating experiences at 7.5 mgd commercial desalination plant — Rosarito B. C. Mexico
E.G. Gomez 30(1979)77-90

Ship-mounted seawater 2500 m^3/d flash evaporation plant for Abu Dhabi. Economical drinking water for arid regions
K. Wangnick 41(1982)171-180

Measurements and control in flash evaporator plants
F.A. Drake 59(1986)241-262

Flash evaporator design

Analysis of the optimization of the design of flash evaporators
J.R. Wolberg 2(1967)299-307

Progress on the design of multiflash evaporators
J.M. Stewart and W.R. Querns
3(1967)139-146

Flashing flow

Flow of flashing water in conduits
A.N. Dickson and R.S. Silver
2(1967)175-195

Study of the mechanism of flashing flow by experiment and theoretical analysis
R.I. Hawes and D.C. Leslie
2(1967)329-336

Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel *(in French)*
J. Huyghe, G. Barois, A. Michel and H. Mondin 4(1968)209-219

Flashing flow of water in conduits between chambers in MSF units
A.A. Rizk, M.A. Darwish and S.M. El-Haggar 20(1977)299-318

Two-phase flashing flow in conduits
M.A. Darwish 26(1978)285-297

Development of flashing flow model for box type orifice
M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori
65(1987)57-62

Flat membrane duct

A finite difference solution for reverse osmosis in turbulent flow
S. Srinivasan and C. Tien
7(1969)51-74

Effect of imperfect salt rejection on concentration polarization in reverse osmosis systems
S. Srinivasan and C. Tien
13(1973)287-301

Flat plate collector

Critical analysis of a proposed solar assisted HTE desalination system
G.G. Fenton and J.P. Gerofi
33(1980)211-219

Solar distillation: The solar-driven case
J.P. Gerofi, G.G. Fenton and E. Mannik 39(1981)83-94

Flat plate evaporators

Simultaneous film evaporation and condensation on a two-directionally inclined surface
D. Moalem, S. Sideman and R. Semiat
21(1977)51-58

Flat sheet membranes

Hollow fine fiber vs. flat sheet membranes: A comparison of structures and performance
J.K. Beasley and R.E. Penn
38(1981)361-372

Floating plants

Mobile and floating flash distillation plants
K.D.B. Johnson and D.W. Clelland
2(1967)170-174

Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant
B. Ohlemann and D.K. Emmermann
45(1983)39-47

Floating desalination plants. An engineering, operating and economic appraisal
M. Fadel, K. Wangnick and N.M. Wade 45(1983)49-63

Floating nuclear desalination plant AFWS-40
V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov
89(1992)21-32

Floating porous plate

Some possibilities for solar evaporation intensification
I. Dobrevsky and M. Georgieva
45(1983)93-99

Flocculation

Pretreatment of seawater for the reverse osmosis type desalination process
R. Bartz 47(1983)189-190

Flocculation, precipitation, sedimentation and flotation for use as pretreatment stages for brackish water and seawater in desalination plants
K. Marquardt 52(1984)43-55

Pretreatment of seawater by flocculation and settling for particulates removal
A. Adin and C. Klein-Banay 58(1986)227-241

Pretreatment of surface seawater feed at DROP
S. Ebrahim and A. Malik 63(1987)95-107

Experience and results on the operation of the common pretreatment at DROP
J. Grigoleit and B. Schöttler 63(1987)209-215

Flux and rejection in the ultrafiltration of colloids
R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell 70(1988)251-264

Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India
A.V. Singh, S. Gupta and S.C. Gupta 104(1996)235-238

FLOCON Antiscalant

Laboratory applications testing of desalination antiscalants
M. H. Auerbach and M. S. Carruthers 31(1979)279-288

Chemistry of alkaline scale inhibition in seawater desalination by FLOCON Antiscalant 247
S. W. Walinsky and B. J. Morton 31(1979)289-298

Evaluation of various additives at Jubail Phase I during reliability trials
N. Nada 51(1984)137-148

Flotation

Flocculation, precipitation, sedimentation and flotation for use as pretreatment stages for brackish water and seawater in desalination plants
K. Marquardt 52(1984)43-55

Flow characteristics

Flow characteristics of semipermeable hollow fibers undergoing reverse osmosis
C. Chen and C.A. Petty 12(1973)281-293

Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer
O. Kuroda, S. Takahashi and M. Nomura 46(1983)225-232

Flow conditions

Reverse osmosis in shell and tubes
Y. Winograd, M. Toren and A. Solan 14(1974)173-187

Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results
F. Bellucci, E. Drioli and A. Pozzi 16(1975)287-301

Continuous flow precipitation
D. Hasson and S. Steinberg 47(1983)129-148

The effect of cell thickness and flow velocity on water cost in desalination by electrodialysis
K. Hattenbach and K. Kneifel 58(1986)33-42

Control of two-phase evaporating flows
S.J. Ball 59(1986)199-217

Flow coupling phenomena

Representations of coupling in osmotic membranes
U. Merten 6(1969)293-302

Flow crystallizers

The growth and nucleation of ice in a batch Couette flow crystallizer
J.S. Wey and J. Estrin 14(1974)103-120

Flow distribution

A consideration on flow distribution in an ion exchange compartment with spacer
H. Miyoshi, T. Fukumoto and T. Kataoka 42(1982)47-55

Lateral flow through a membrane and along a backing support to a collector
K.J. Mysels 60(1986)67-73

Flow model

Development of flow model for weir type orifice
M. Kishi, K. Matsumoto, Y. Takeuchi and K. Hattori 55(1985)481-492

Flow pattern

The relationship between flow pattern and thermal non-equilibrium in the multi-stage flash evaporation process
O. Miyatake, T. Hashimoto and N. Lior 91(1993)51-64

Flow patterns

The crossflow piston bed
H.F. Wiegandt, R.L. Von Berg and P.R. Patel 25(1978)303-324

Concentration polarization and fouling
E. Matthiasson and B. Sivik 35(1980)59-103

Flow patterns in radial flow hollow fiber reverse osmosis systems
W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee 68(1988)11-28

Flowcell method

EMF measurements for selectivity determinations of highly selective membranes. Comparison of a flow-cell method and the membrane-strip method
J.C.T. Kwak 11(1972)61-69

Flue gas

Reverse osmosis of wash waters from simultaneous SO_2/NO_x wet removal technique of flue gas
W. Thamm and E. Staude 61(1987)27-37

Desalination and concentration of flue gas scrubber effluents using the electrodialysis reversal process
D. Elyanow and J. Mahoney 67(1987)283-298

Fluid hydrodynamics

Parametric study on falling-film seawater desalination
G. Aly, A. Al-Haddad and M. Abdel-Jawad 65(1987)43-55

Fluid mechanics

Study of fluid mechanics and heat transfer in multiflash desalination plants *(in French)*
R. Douvry and M. Cohen de Lara 2(1967)345-357

A system for the experimental study of flash evaporation
N. Lior and R. Greif 31(1979)87-99

Heat transfer and fluid flow characteristics in flash desalination units
E. E. Khalil, M. M. Hilal, M. F. El-Fouly and H. Z. El-Mogy 39(1981)283-294

Fluid mechanics and cross-flow filtration: Some thoughts
G. Belfort and N. Nagata 53(1985)57-79

Optimization of fluid dynamics for maximum fouling prevention
R.F. Madsen 70(1988)177-189

Fluidized bed evaporators

The MSF/FBE: An improved multi-stage flash distillation process
A.W. Veenman 19(1976)1-14

Prevention of calcium sulfate scale deposition by a fluidized bed
J.A.M. Meijer 47(1983)3-15

Impacts against the wall of a scaled-up fluidized bed
J.A.M. Meijer, J.A. Wesselingh, A. Clobus and M.L. A. Goossens 58(1986)1-18

Fluidized bed heat exchangers

Scale control in the high temperature distillation of saline waters by means of fluidized-bed heat exchangers
L.P. Hatch, G.G. Weth and S.J. Wachtel 1(1966)156-164

Heat transfer in a multi-stage flash/fluidized bed evaporator (MSF/FBE)
A.W. Veenman 22(1977)55-76

The standard module philosophy for multi stage flash/fluidized bed evaporation: a new approach in desalination
D.G. Klaren and N. Halberg 31(1979)233-240

A comparison of the operating characteristics of conventional multi-stage flash evaporation and multi-stage flash/fluidized bed evaporation
G. Spanhaak 31(1979)511-519

Investment costs and energy consumption of the MSF/FBE in comparison with the MSF
J.P.P. Tholen 40(1982)341-345

Fluidized bed ion exchange

Water-softening by continuous counter-current ion-exchange single column technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 48(1983)281-292

Fluidized beds

Use of fluidised beds as turbulence promotors in tubular membrane systems
M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay 22(1977)465-483

Scale inhibition of calcium sulfate by a fluidized bed
J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel 34(1980)217-232

A mathematical model of the cyclic operation of desalination- feedwater softening by ion-exchange with fluidized-bed regeneration
P. Shain, G. Klein and T. Vermeulen 69(1988)135-146

The fluidized bed technique in the evaporation of wastewaters with severe fouling/scaling potential - Latest developments, applications, limitations
R. Rautenbach, C. Erdmann and J.S. Kolbach 81(1991)285-298

Fluorescence spectroscopy

The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes
G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard 46(1983)435

Fluoride removal

A note on fluoride removal by reverse osmosis
B.R. Min, A.L. Gill and W.N. Gill 49(1984)89-93

Fluted tubes

Improved high-performance fluted tube for thin-film evaporation and condensation
D.G. Thomas and L.G. Alexander 8(1970)13-19

Prospects for further improvement in enhanced heat transfer surfaces
D.G. Thomas 12(1973)189-215

Hydrodynamics of condensate films on fluted tube surfaces. Part I
T.G. Somer and C. Özgen 34(1980)233-247

Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II
T.G. Somer and C. Özgen 34(1980)249-265

Some results of the investigations on corrosion protection of desalination plant equipment
A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko 44(1983)233-239

Hydrodynamic and heat transfer studies on fluted tubes with drainage discs
C. Özgen and H. Gökçe 45(1983)183

A theoretical study on hydrodynamics of condensate films over fluted tubes
C. Özgen and I. Tosun 45(1983)251

Equations for condensation in fluted tubes (in German)
B. Kunst 45(1983)265-279

Effect of inclination on the heat transfer performance of fluted tubes with and without drainage discs
A. Büyükyilmaz, C. Özgen and T.G. Somer 65(1987)3-23

A theoretical study of enhanced condensation over horizontal fluted tubes
K. Fathalah, S. E. Aly, M. Darwish and A. Radhwan 65(1987)25-42

Enhanced film condensation of steam on spirally fluted tubes
N.H. Aly and S.D. Bedrose 101(1995)295-301

Modernizing the desalination industry
R.P. Hammond 107(1996)101-109

Flux

Initial flux decline of the cellulose acetate butylate membranes with time under RO performance
Y. Mashiko, Y. Kurokawa and S. Saito 48(1983)147-160

Factors affecting flux in membrane distillation
R.W. Schofield, A.G. Fane, C.J.D. Fell and R. Macoun 77(1990)279-294

Flux decline

The use of reverse osmosis for the treatment of river Rhine water. Part II
D. Kuiper, J.L. Van Hezel and C.A. Bom 15(1974)193-212

Predicting flux decline of reverse osmosis membranes
J. C. Schippers, J. H. Hanemaayer, C. A. Smolders and A. Kostense 38(1981)339-348

A viscoelastic model for initial flux decline through reverse osmosis membrane
Y. Kurokawa, M. Kurashige and N. Yui 52(1984)9-14

Resolution of RO flux decline problems at Englewood, Florida
R.A. Bergman, H.W. Harlow and P.E. Laverty 54(1985)55-74

Analysis of laminar flow precipitation fouling on reverse osmosis membranes
J. Gilron and D. Hasson 60(1986)9-24

The unsteady-state modelling of cross-flow microfiltration
J. W. Hunt, C. J. Brouckaert, J. D. Raal, K. Treffry-Goatley and C. A. Buckley 64(1987)431-442

Analysis of RO flux decline due to membrane surface blockage
J. Borden, J. Gilron and D. Hasson 66(1987)257-269

Parametric evaluation of flux decline during ultrafiltration of protein solutions
A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik 68(1988)35-44

Microfiltration of protein solutions: Effect of fouling on rejection
P. Heinemann, J.A. Howell and R.A. Bryan 68(1988)243-250

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Flux decline due to gypsum precipitation on RO membranes
M. Brusilovsky, J. Borden and D. Hasson 86(1992)187-222

Determination of optimized membrane area from long-term flux decline data
M.S. Suwandi 90(1993)379-388

A numerical model of steady-state permeate flux during cross-flow ultrafiltration
Y. Lee and M.M. Clark 109(1997)241-251

Flux properties

Explicit flux expressions in tubular reverse osmosis desalination
G.H. Rao and K.K. Sirkar 27(1978)99-116

Fouling of ultrafiltration membranes: lateral migration and the particle trajectory model
G. Green and G. Belfort 35(1980)129-147

Simultaneous automatic measurement of salt and water fluxes through a charged membrane
C. Ripoll, M. Labbe, L. Lavielle and E. Selegny 41(1982)289-298

Dynamically formed hydrous zirconium (IV) oxide—polyelectrolyte membranes V. Non-homogeneous poly(acrylic acid-convinyl alcohol) membranes: Rejection and flux properties and the treatment of coal gasification waste water
A.J. Van Reenen and R.D. Sanderson 72(1989)319-328

Foam fractionation

Removal of surfactants and particulate matter from sea water desalination blowdown brines by foam fractionation
E. Valdes-Krieg, C. J. King and H. H. Sephton 16(1975)39-53

Development of water re-use treatment system for municipal wastewater
T. Sawa, M. Kubota, S. Takahashi and Y. Masaki 32(1980)373-382

Foam control additives in MSF desalination
M. H. Auerbach, J. J. O'Neill, R. A. Reimer and S. W. Walinsky 38(1981)159-168

Food industry

Membrane processes for water, pulp and paper, food. State of the art
R. Glimenius 35(1980)259-272

Application of selective membranes in grape juice stabilization
G. Niketic-Aleksic and M.M. Jaksic 35(1980)317-327

Food and dairy applications: The state of the art
V. Gekas, B. Hallström and G. Trägårdh 53(1985)95-127

Concentration of tomato juice and other fruit juices by reverse osmosis
D. Pepper, A. C. J. Orchard and A. J. Merry 53(1985)157-166

Applications of crossflow membrane technology in the fishing industry
K.A. Almås 53(1985)167-180

High-temperature reverse osmosis membrane element
H.C. Chu, J.S. Campbell and W.G. Light 70(1988)65-76

RO for improved products in the food and chemical industries and water treatment
D. Pepper 77(1990)55-71

Ultrafiltration applications
A.-S. Jönsson and G. Trägårdh 77(1990)135-179

Cross-flow microfiltration in food industry. State of the art
H.C. Van Der Horst and J.H. Hanemaaijer 77(1990)235-258

Some experimental results and design calculations for reverse osmosis concentration of green tea juice
Shi Qiu Zhang, A.E. Fouda, T. Matsuura and Kam Chan
80(1991)211-234

Contamination of food-process water supplies
G. Hayes 82(1991)375-384

Reduction of melassigenic ions in cane sugar juice by electrodialysis
M.O. El-Khattabi, M.R.A. Hafidi and A. El-Midaoui 107(1996)149-157

Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water
M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini 108(1996)261-271

Food industry, Milk

Concentration of raw whole milk by reverse osmosis and its influence on fat globules
R. de Boer and P.F.C. Nooy
35(1980)201-211

Production and properties of yoghurt and ymer made from ultrafiltrated milk
G. Mogensen 35(1980)213-222

Overview of concentration polarization in ultrafiltration
S. Bruin, A. Kikkert, J. A. G. Weldring and J. Hiddink
35(1980)223-242

Predicting flux in UF of milk
P. Dejmek 53(1985)135-142

Characteristic of the critical state of membranes in ED-desalination of milk whey
M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
86(1992)173-186

Force Provider

Force Provider: An emergency response system
E.A. Downing 99(1994)401-408

Formaldehyde oxidation

Dilute aqueous formaldehyde oxidation with hypochlorous acid
A.P. Murphy, L.H. Rowley and C.D. Moody 91(1993)199-208

Forward osmosis

Forward osmosis extractors
C.D. Moody and J.O. Kessler
18(1976)283-295

Drinking water from sea water by forward osmosis
J.O. Kessler and C.D. Moody
18(1976)297-306

Foulants

The composition and structure of reverse osmosis foulant deposits formed from Rand Water Board water: A preliminary investigation
J.P. Leger and L.C. Hawker
61(1987)137-158

Biological fouling and control at Ras Abu Jarjur RO Plant - A new approach
S.R. Ahmed, M.S. Alansari and T. Kannari 74(1989)69-84

Fouling

Fouling of anion-selective membranes in electrodialysis
E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch 8(1970)195-220

About the mechanism of formation of iron hydroxide fouling layers on reverse osmotic membranes
J.M. Jackson and D. Landolt
12(1973)361-378

Artificial particulate fouling of hyperfiltration membranes
G. Belfort, G. Alexandrowicz and B. Marx 19(1976)127-138

Fouling in boiling liquid *(in German)*
K.-J. Schmid-Schönbein
21(1977)99-118

Artificial particulate fouling of hyperfiltration membranes. II. Analysis and protection from fouling
G. Belfort and B. Marx 28(1979)13-30

The modified fouling index, a method of determining the fouling characteristics of water
J.C. Schippers and J. Verdouw
32(1980)137-148

Concentration polarization and fouling
E. Matthiasson and B. Sivik
35(1980)59-103

Comparison of MSF heat rejection sections and seawater cooled power station condensers
B.M. Watson and K. Eimer
38(1981)49-56

Yuma desalting test facility: Foulant component study
C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty
47(1983)239-253

Fouling of RO membranes in wastewater applications
M.L. Arora and K.M. Trompeter
48(1983)299-319

A contribution to fouling in hyperfiltration induced by chemical reaction
E. Staude and W. Assenmacher
49(1984)215-228

Increase in electric resistance of ion exchange membranes by fouling with naphthalenemonosulfonate
K. Urano, Y. Masaki and Y. Naito
58(1986)177-186

Trace metal fouling and cleaning of seawater RO membranes
G. Peplow and F. Vernon
66(1987)271-284

A comparative study of organic fouling in hollow fiber and spiral wound membranes
G.S. Watkins and H.B. Gupta
66(1987)299

Control of organic fouling at two seawater reverse osmosis plants
H. Winters 66(1987)319-325

Modeling of calcium sulphate fouling of reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 72(1989)293-318

Performance of RO membranes in correlation with membrane structure, transport mechanisms of matter and module design (fouling). State of the art
W. Pusch 77(1990)35-54

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Microfiltration membranes, cross-flow transport mechanisms and fouling studies
V. Gekas and B. Hallström
77(1990)195-218

Cross-flow microfiltration in food industry. State of the art
H.C. Van Der Horst and J.H. Hanemaaijer 77(1990)235-258

A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis
P.Lipp, B. Görge and R. Gimbel 79(1990)203-216

Fouling resistance models in MF and UF
K.M. Persson and J.L. Nilsson 80(1991)123-138

RO pre-treatment — Injecting a little chemical control and management
N.R.G. Walton 82(1991)281-301

Fouling prediction in reverse osmosis processes
M. Barger and R.P. Carnahan 83(1991)3-33

Colloidal fouling of microfiltration membranes during the treatment of aqueous feed streams
R.J. Wakeman and E.S. Tarleton 83(1991)35-52

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
S.R. Baggott and A. Jaffer 83(1991)119

Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment
I. Baudin, M. Millequant, A. Ricard and R. Audebert 86(1992)237-255

Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment
I. Baudin, M. Millequant, A. Ricard and R. Audebert 86(1992)237-255

The industrial application of ultrafiltration membranes
Bing-hua Zhu and Peng Cheng 90(1993)119-126

On-load tube cleaning systems and debris filters for avoidance of micro- and macrofouling in MSF desalination plants
H. Böhmer 93(1993)171-179

Scale formation and fouling problems effect on the performance of MSF and RO desalination plants in Saudi Arabia
M. Al-Ahmad and F.A. Aleem 93(1993)287-310

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
A.E. Jaffer 96(1994)71-79

Scale formation and fouling problems and their predicted reflection on the performance of desalination plants in Saudi Arabia
M. Al-Ahmad and F.A. Aleem 96(1994)409-419

US Army reverse osmosis membrane research programs
E.A. Downing, A.J. Coleman and T.H. Bagwell, Jr. 99(1994)383-399

The influence of degreasing agents used at car washes on the performance of ultrafiltration membranes
C. Jönsson and A.-S. Jönsson 100(1995)115-123

Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent
M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson 101(1995)155-167

Silica fouling revisited
S.D.N. Freeman and R.J. Majerle 103(1995)113-115

Membrane autopsy — A case study
L.Y. Dudley and E.G. Darton 105(1996)135-141

Membrane performance with plug screw feeder pressate: Operating conditions and membrane properties
M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy 105(1996)229-244

Humic acid as a fouling agent in filtration
M. Nyström, K. Ruohomäki and L. Kaipia 106(1996)79-87

Coliphage rejection under ultramembrane filtration
K. Kawamura, K. Nishimura and Y. Magara 106(1996)89-97

Survey of long time behavior and costs of industrial fluidized bed heat exchangers
R. Rautenbach and T. Katz 108(1996)335-344

Modeling multistage flash desalination plants
M. Rosso, A. Beltramini, M. Mazzotti and M. Morbidelli 108(1996)365-374

Fouling control

Modification of anion-exchange membranes by oxidation of selected chemical sites for the purpose of preventing fouling during dialysis
K. Kusumoto, Y. Mizumoto and Y. Mitzutani 17(1975)303-311

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Fouling factor

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Field experiences on large MSF desalination plants designed to operate with two different top brine temperatures
A. Massarani 66(1987)43-57

Fouling index

The dynamic of sea water desalting through zone-freezing
D.M. Lupu 31(1979)415

Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis
T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino 32(1980)93-101

The modified fouling index a method of determining the fouling characteristics of water
J.C. Schippers and J. Verdouw 32(1980)137-148

Predicting flux decline of reverse osmosis membranes
J. C. Schippers, J. H. Hanemaayer, C. A. Smolders and A. Kostense 38(1981)339-348

Some observations on the considerable variability of silt density index results due to equipment filter and operator variables
N. R. G. Walton 61(1987)201-210

An investigation of the modified fouling index as a test for plugging potential of pretreated seawater
D. R. van der Vaart and E. P. Stahel
68(1988)45-56

A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis
P.Lipp, B. Görge and R. Gimbel
79(1990)203-216

Fouling model

A model for the fouling of MSF plants based on data from operating units
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 47(1983)37-47

Towards an inductive understanding of membrane fouling
G. Belfort and W. Altena
47(1983)105-127

Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents
C.A. Buckley, R.L.C. Flemmer and G.R. Groves 47(1983)171-179

Fouling, particulate

Artificial particulate fouling of hyperfiltration membranes IV. Dynamic protection from fouling
G. Belfort 34(1980)159-169

Fouling of ultrafiltration membranes: lateral migration and the particle trajectory model
G. Green and G. Belfort
35(1980)129-147

Effects of acceleration on particulate fouling in reverse osmosis
J.C. Eid and G.B. Andeen
47(1983)191-199

Particle motion in a laminar slit flow: a fundamental fouling study
F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
47(1983)221-232

Fouling prevention

Better MSF plant performance by avoiding tube fouling and debris
H. Boehmer and F.J. Glaze
55(1985)429-439

Pretreatment of seawater by flocculation and settling for particulates removal
A. Adin and C. Klein-Banay
58(1986)227-241

Application of cross-flow electro-microfiltration in chromium wastewater treatment
C. Visvanathan, R. Ben Aim and S. Vigneswaran 71(1989)265-276

A rheological screening method for membrane modifying polymers
B. Sivik, M. Wahlgren and Y. Miezis
77(1990)181-193

Fouling, protein

The performance of ultrafiltration membranes pretreated by polymers
K.J. Kim, A.G. Fane and C.J.D. Fell
70(1988)229-249

Reducing the protein fouling of polysulfone surfaces and polysulfone ultrafiltration membranes: Optimization of the type of presorbed layer
L.E.S. Brink and D.J. Romijn
78(1990)209-233

The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review
A.D. Marshall, P.A. Munro and G. Trägårdh 91(1993)65-108

Fouling reduction

Membrane cleaning
G. Trägårdh 71(1989)325-335

Fractals

Membranes as fractals: Implications and concequences
C.M. Tam and A.Y. Tremblay
90(1993)77-91

Fractionation

RO-fractionation membranes
D. Pepper 70(1988)89-93

Fractionation of aqueous organic mixtures by reverse osmosis
R. Rautenbach and A. Gröschl
90(1993)93-106

Freeze desalination

Assessment of crystalliser designs for a butane freeze desalination process
M. Landau and A. Martindale
3(1967)318-329

Hydrate formation in *i*-butane-*n*-butane or a butene isomer water system at a given temperature
T. Uchida and I. Hayano
3(1967)373-377

Analysis of counterwashers for freeze distillation desalination
J. Schwartz and R.F. Probstein
4(1968)5-29

Early experiments on water desalination by freezing
G. Nebbia and G.N. Menozzi
5(1968)49-54

Experimental study of slurry separators for use in desalination
J. Shwartz and R.F. Probstein
6(1969)239-266

Nucleation and growth of ice crystals in secondary refrigerant freezing
J.C. Orcutt 7(1969)75-96

The secondary refrigerant freezing process: A modeling study
J.C. Orcutt and F.J. Hale
7(1970)201-227

Vacuum stripping of butane from water in a packed column
J.-E. Bajolle, P.A. Rice and A.J. Barduhn 9(1971)351-366

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 ($CClF_2CClF_2$)
G.L. Stepakoff and A.P. Modica
12(1973)85-105

Salt entrainment in ice crystallized from brine
E.F. Janzow and B.T. Chao
12(1973)141-161

Induced crystallization of large free ice crystals in slowly flowing brine
E.F. Janzow and B.T. Chao
12(1973)163-175

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica
12(1973)239-250

Desalination by natural freezing
P.C. Wankat 13(1973)147-157

Spray freezer and pressurized counterwasher for freeze desalination
W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone 14(1974)249-262

Evaporation of butane drops in brine
H.C. Simpson, G.C. Beggs and M. Nazir 15(1974)11-23

Water desalination by natural freezing
J. Fournier, J.L. Grange and S. Vergara 15(1974)167-175

The exchange crystallization freeze desalination process
D.W. Johnson, J.L. Lott and C.M. Sliepcevich 18(1976)231-240

Freezing processes — the standard of the future
P.J. Schroeder, A.S. Chan and A.R. Khan 21(1977)125-136

An integral design for desalination plant using the secondary refrigerant freeze process
A.I. Lloyd 21(1977)137-146

Dynamic modelling and partial simulation of a pilot scale column crystallizer
N. Akhtar, L. McGrath and P.D. Roberts 28(1979)1-11

A review of freeze-desalting processes and their prospects
B. Cox 31(1979)413

Indirect freezing
W.E. Johnson 31(1979)417-425

Myths about freeze desalting
H. F. Wiegandt and R. L. Von Berg 33(1980)287-297

Desalinated water production at LNG terminals
A. Antonelli 45(1983)383-390

Measurements and control in freeze desalination plants
W.J. Hahn 59(1986)321-341

Use of low grade in driving small freezing units for desalination
A. F. Abdul-Fattah 61(1987)169-183

Ice crystallization developments for the butane direct-contact process
H.F. Wiegandt, A. Madani and P. Harriott 67(1987)107-126

Freeze desalination using hydraulic refrigerant compressors
W. Rice and D.S.C. Chau 109(1997)157-164

Freezing

Desalination by natural freezing
P.C. Wankat 13(1973)147-157

Design features of secondary refrigerant freezing plants
W.R. Burton and A.I.Lloyd 14(1974)151-161

Evaporation of butane drops in brine
H.C. Simpson, G.C. Beggs and M. Nazir 15(1974)11-23

Water desalination by natural freezing
J. Fournier, J.L. Grange and S. Vergara 15(1974)167-175

Indirect freezing
W.E. Johnson 31(1979)417-425

Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions
G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath 36(1981)87-97

Evaporation of water from agitated freezing slurries at low pressure
L.C. Dickey 104(1996)155-163

Freezing processes

Water desalination by indirect freezing
H.M. Curran 7(1970)273-284

Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process
W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson 14(1974)263-290

Development of a eutectic freezing process for brine disposal
G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson 15(1974)25-38

State-of-the-art of freezing processes. Their potential and future
W.E. Johnson 19(1976)349-358

Freezing processes — the standard of the future
P.J. Schroeder, A.S. Chan and A.R. Khan 21(1977)125-136

Thermodynamic properties of normal butane at refrigeration temperatures
R.T. Kurnik and A.J. Barduhn 26(1978)211-283

Temperatures required for eutectic freezing of natural waters
A.J. Barduhn and A. Manudhane 28(1979)233-241

A review of freeze-desalting processes and their prospects
B. Cox 31(1979)413

Indirect freezing
W.E. Johnson 31(1979)417-425

Myths about freeze desalting
H. F. Wiegandt and R. L. Von Berg 33(1980)287-297

Freezing processes — The standard of the future — An update
P.J. Schroeder 33(1980)299-310

Freezing processes — The standard of the future — An update
P.J. Schroeder 33(1980)299-310

Desalination by the improved vacuum freezing high pressure ice melting process
Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins 42(1982)141-151

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 45(1983)373

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 49(1984)293-319

Fresh water from the sea, a new process
J. B. Maguire 67(1987)155-162

Freon

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 ($CClF_2CClF_2$)
G.L. Stepakoff and A.P. Modica 12(1973)85-105

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica 12(1973)239-250

Fresh water

Athens: 1967. Review of the second European Symposium on fresh water from the sea, May 9-12, Athens, Greece
D. Hasson 2(1967)5-12

Current developments in the research concerning the intervention of man in solar distillation on a meteorological scale to obtain fresh water from sea water in arid and tropical zones *(in French)*
J.R. Vaillant 4(1968)258-263

Iceberg utilization and alternative systems related to fresh water transport — Recycling and supplementary desalinization
C.D. Looyen 29(1979)173-189

Techniques for achieving high recovery from saturated water sources using reverse osmosis membranes
O.E. Kirchner 32(1980)223

Friction model

A molecular friction model for transport of uncharged solutes in neutral hyperfiltration and ultrafiltration membranes containing bound water
G. Belfort 18(1976)259-281

Fuel

An evaluation of the energy requirements of desalination processes on the basis of the fuel use performance ratio
I. Kamal and G.F. Tusel
40(1982)283-295

Fuel efficiencies, allocation of fuels and fuel costs for power and desalination in dual purpose plants: A novel methodology
M.N. Saeed 85(1992)213-229

Fuel cell technology

A new water and power combination: Vacuum vapor compression seawater distillation and natural gas fuel cells
R.L. Campbell and T.H. Emerson
99(1994)423-445

Fuzzy controllers

Possible applications of fuzzy controllers for chemical phosphate elimination
F. Gebhardt and J. Maschlanka
96(1994)89-102

Fuzzy set theory

A comprehensive formal approach to the evaluation of bids for desalination plants using verbal judgment
R. Kenarangui, A. Husseiny and Z. Sabri 33(1980)311-331

Engineering management of desalination plants in Saudi Arabia using fuzzy decision analysis
A.F. Abdul-Fattah 37(1981)343-350

Handling of fuzzy decisions in the engineering management of large desalination plants
A-R. F. Abdul-Fattah
39(1981)489-490

Gamma-ray interaction method

Determination of scale thickness and general and localized metal removal in desalination plants by the gamma-ray interaction method
S. Abdul-Majid 91(1993)35-49

Gas bubbles

The effect of gas bubbles on flash evaporation
N. Lior and E. Nishiyama
45(1983)231-240

Gas dynamic resistance coefficient

Influence of spray density on coefficient of gas dynamic resistance for tube bundles of different configuration
V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub 74(1989)383-389

Gas permeability

Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements
W. Pusch and A. Tanioka
46(1983)425-434

Synthesis and gas transport properties of new copolymer membranes with trimethylsilyl groups
T. Nakagawa, S. Nagashima and A. Higuchi 90(1993)183-192

Gas separation

Gas separation using the membrane rectification technique
G. Schulz and U. Werner
51(1984)123-133

Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes
R.A. Terpstra, B.C. Bonekamp and H.J. Veringa 70(1988)395-404

Gas separation and pervaporation: Membrane and module development
H. Strathmann, C.-M. Bell and J. Kerres 77(1990)259-278

A comparison of two commercial membranes used for biogas upgrading
M. Röhr and R. Wimmerstedt
77(1990)331-345

Treatment of landfill gas by gas permeation — Pilot plant results and comparison to alternatives
R. Rautenbach and K. Welsch
90(1993)193-207

Gas turbines

Gas turbines and fresh water. Technical and economic aspects *(in French)*
P.P. Chaffiotte 3(1967)46-59

Design of high efficiency single and dual purpose plants with gas turbines
G. F. Tusel and I. Kamal
38(1981)135-144

Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant
A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
44(1983)17-27

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady
49(1984)271-292

Gas turbine waste heat utilization for distillation
R. Rautenbach and B. Arzt
52(1985)105-122

On the thermodynamics of dual purpose power desalting plants. Part II. Using gas turbines
M.A. Darwish, A. Elhadek and A. Dayoub 64(1987)169-182

Humidification-dehumidification desalination process using waste heat from a gas turbine
H.T.A. El-Dessouky 71(1989)19-33

Gas-liquid equilibrium

Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature
D. Barba, V. Brandani, G. Del Re and G. Di Giacomo 65(1987)101-112

Gel formation

Membrane filtration of NSSC-waste liquor
G. Jonsson and S. Kristensen 32(1980)327-349

Overview of concentration polarization in ultrafiltration
S. Bruin, A. Kikkert, J. A. G. Weldring and J. Hiddink 35(1980)223-242

Gel layer

Membrane fouling and determination of gel layer growth rate in membrane separation
Shusen Wang and Giajun Hu 56(1985)405-412

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-*alt*-maleic anhydride)
E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)37-54

Characterization of gel layer formed during ultrafiltration of latex emulsion waste waters
M. Bodzek and K. Konieczny 94(1993)81-100

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate
E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)115-132

Gel permeation

Gel permeation: A means to characterize wastewater and residual dissolved organic matter in effluents
G. Crozes, B. Capdeville and A. Moro 106(1996)213-224

Gel-polarization models

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Gelatin layer

Concentration and purification of gelatin liquor by ultrafiltration
B. Chakravorty and D.P. Singh 78(1990)279-286

Gelular resins

Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins
Z. Matejka and J. Eliasek 42(1982)315-320

Genotoxicity

Evaluation of toxic substances in effluents from a wastewater treatment plant
Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri 106(1996)255-261

Geothermal desalination

Desalting geothermal brines
A.D.K. Laird and B.W. Tleimat 19(1976)309-316, Err. 21(1977)234

Geothermal desalting at the East Mesa test site
W.J. Boegli, S.H. Suemoto and K.M. Trompeter 22(1977)77-90

Deposition of silica from geothermal waters on heat transfer surfaces
J.S. Gudmundsson and T.R. Bott 28(1979)125-145

Geothermal fluids

Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature
D. Barba, V. Brandani, G. Del Re and G. Di Giacomo 65(1987)101-112

Geothermal resources

Geothermal energy recovery process
L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers 19(1976)325-336

Desalination plant using low grade geothermal heat
A. Ophir 40(1982)125-132

Geothermal resources in Israel
L. Koifman 40(1982)133-134

Glass fiber reinforced plastic

Glass fiber reinforced plastic applications for corrosive environments in desalination- and power plants, and for water treatment
K.-H. Geigl and R.P. Malhotra 44(1983)307-315

Global planning

The part of the private sector in global water planning: The role of desalination
H.-D. von Löbbecke 100(1995)21-26

Glucose

Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler 34(1980)25-34

Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from single solute aqueous solution
S. W. Thiel and D. R. Lloyd 46(1983)399-406

Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation
M.N. de Pinho 68(1988)211-221

Gold recovery

Recovery of gold from the plating rinse by adsorption with nylon fibers
M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato 29(1979)275-284

Gold-plating rinse effluent

Studies on the treatment of gold plating rinse by reverse osmosis
C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami 27(1978)261-272

Recovery of gold from the plating rinse by adsorption with nylon fibers
M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato 29(1979)275-284

Grafting, radiation induced

A graft modified cellulose acetate hollow fiber membrane
Yang Puchen, Yan Wen and Zhang Huixin 62(1987)99-106

Radiation induced grafting of acrylic acid onto polycarbonate membranes
Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian 62(1987)107-115

Preparation of NF ion-exchange membranes via radiation-induced grafting and their application
Xu Zhi-li 62(1987)259-264

Preparation of charged micro-mosaic membrane via radiation-induced grafting of styrene and methyl methacrylate onto Teflon FEP films
Gen Yun-Peng 62(1987)265-273

Preparation of charge-mosaic membranes by radiation-induced graft copolymerization of PE films with styrene and 4-vinylpyridine. II. Effects of pre-irradiation dosage, atmosphere, storage time and storage temperature of grafting of vinylpyridine onto PE films
Dong Chuanyin 62(1987)275-282

Gamma radiation induced graft copolymerization of acrylate monomers onto isotactic polypropylene
I. Kaur and B. N. Misra 64(1987)271-284

Ultrafiltration membranes obtained by poly(acrylonitrile) grafted onto poly(vinylchloride)
F. Vigo, C. Uliana and G. Dondero 70(1988)277-292

Greenhouse

Design of a commercial solar-powered greenhouse
T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews 39(1981)53-62

Optimum conditions for a solar still and its use for a greenhouse using the nutrient film technique
S.M. El-Haggar and A.A. Awn 94(1993)55-68

Greywater

The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog
B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf 87(1992)97-107

Domestic greywater re-use: Australia's challenge for the future
B. Jeppesen 106(1996)311-315

Greywater reuse proposal in relation to the Palmyra project
E.B. Bingley 106(1996)371-375

Water efficiency program for Perth
R. Stone 106(1996)377-390

An investigation into greywater reuse for urban residential properties
D. Christova-Boal, R.E. Eden and S. McFarlane 106(1996)391-397

Wastewater reuse studies and trials in Canberra
J. Neal 106(1996)399-405

Grooved tubes

Experimental study of film condensation on horizontal grooved tubes
A. F. Mills, G. L. Hubbard, R. K. James and C. Tan 16(1975)121-133

Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes
S. Sideman and A. Levin 31(1979)7-18

Equations for condensation in fluted tubes (in German)
B. Kunst 45(1983)265-279

Groundwater

Large scale water reclamation by reverse osmosis
T.J. Larson and D.G. Argo 19(1976)421-432

Bahrain's fresh groundwater situation and the investigations into using Bahrain's brackish water resources as a feedwater for the reverse osmosis desalination programme
R.P. Birch, M. Al-Arrayedh and B. Hallmans 55(1985)397-427

Artificial recharge of groundwater and its role in water management
J.O. Kimrey 72(1989)135-147

Investigations of groundwater resources in Central Jordan
H. Bender, M. Hobler, H. Klinge and K. Schelkes 72(1989)161-170

Current regulatory concerns related to the disposal of RO concentrates in Florida
R.S. Dehan 78(1990)17-26

Impact of reject water from the desalination plant on ground water quality
N.S. Rao, T.N.V. Rao, G.B. Rao and K.V.G. Rao 78(1990)429-437

A research and demonstration project permit under the new California groundwater recharge regulations
M. Wehner 87(1992)37-52

Desalting and ground water management in the San Joaquin Valley, California
B.E. Smith 87(1992)151-174

Financing groundwater desalination in Southern California
A. Sienkiewich 87(1992)175-180

Remediation of groundwater contaminated by olive processing waste
C.J. Martin 88(1992)253-263

Groundwater treatment in the Central Region of Saudi Arabia
A.I. Abdula'aly and A.A. Chammem 96(1994)203-214

Groundwater as a feedwater source for membrane treatment plants: Hydrogeologic controls on water quality variation with time
T.M. Missimer 98(1994)451-457

Space-age integrated exploration and treatment of renewable regional sources of pristine groundwater in fractured rock "megawatersheds"
R.A. Bisson 99(1994)257-273

A comparison of membrane softening on three South Florida groundwaters
F.E. Duran and G.W. Dunkelberger 102(1995)27-34

Groundwater resources

Ground water resources in Fayoum area, Egypt
B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib 39(1981)295-

Origin of subsurface water in Khartoum province, Sudan
B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib 39(1981)297

Investigations of groundwater resources in Central Jordan
H. Bender, M. Hobler, H. Klinge and K. Schelkes 72(1989)161-170

A research and demonstration project permit under the new California groundwater recharge regulations
M. Wehner 87(1992)37-52

Gypsum crystal growth

Polymers that inhibit the deposition of calcium sulphate: some interesting conductance observations
P.F. Rolfe 1(1966)359-366

The growth of gypsum crystals on barite and calcite
J.S. Gill and G.H. Nancollas 29(1979)247-254

A quantification of the effectiveness of an inhibitor on the growth process of a scalant
M. P. C. Weijnen, W. G. J. Marchée and G. M. van Rosmalen 47(1983)81-92

Aspects of additives in precipitation process: performance of polycarboxylates in gypsum growth prevention
M.C. van der Leeden and G.M. van Rosmalen 66(1987)185-200

Gypsum precipitation

The influence of various polyelectrolytes on the precipitation of gypsum
M.P.C. Weijnen and G.M. van Rosmalen 54(1985)239-261

Flux decline due to gypsum precipitation on RO membranes
M. Brusilovsky, J. Borden and D. Hasson 86(1992)187-222

Halocarbon refrigerants

Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis
S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn 11(1972)31-59

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 ($CClF_2CClF_2$)
G.L. Stepakoff and A.P. Modica 12(1973)85-105

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica 12(1973)239-250

Halocarbons

The effects of small halocarbons on RO membrane performance
R. Cheng, J. Glater, J.B. Neethling and M.K. Stenstrom 85(1991)33-44

Halogen disinfectants

Reverse osmosis membrane sensitivity to ozone and halogen disinfectants
J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan 48(1983)1-16

Health

Metabolic effects of drinking brackish water
G.M. Berlyne and M. Morag 10(1972)215-219

Wastewater disposal option in Mundaring: A practical case study
E. Murphy 106(1996)361-370

Heat and mass transfer

Role of heat and mass transfer in membrane distillation process
S. Bandini, C. Gostoli and G.C. Sarti 81(1991)91-106

General approach to the drop entrainment calculation in heat- and mass-transfer apparatus
V.V. Iljushchenko, A.M. Rosen and S.I. Golub 81(1991)383-390

Heat exchange

Physical properties of sea water solutions: Heat capacity
D.T. Jamieson, J.S. Tudhope, R. Morris and G. Cartwright 7(1969)23-30

The formation and properties of Al/Mg scales on Al heat-exchange surfaces in desalination plant
C.E. Austing, A.M. Pritchard and N.J.M. Wilkins 12(1973)251-272

Numerical determination of time responses of three flows heat exchanger in desalination plants
H. El-Hares 19(1976)103-112

The MSF desalination process: A comparison of acid and polyphosphate treatment plants
K. Hill 25(1978)111-122

Investigation of heat exchange during sea water boiling in a horizontal thin film desalination plant
V. Slesarenko 29(1979)311-318

Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow
V. Slesarenko 33(1980)251-257

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Seawater desalination with very low energy consumption
L. Cavalieri and G. Nasser 44(1983)143-151

Thermal desalination of sea water in thin film plants
V.N. Slesarenko 45(1983)295-302

Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations
O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert 71(1989)337-345

Method for extending heat exchanger and condenser life
C.P. Tallman, Sr. 73(1989)231-246

Heat exchange at dropwise condensation in heat exchangers of desalination plants
V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi 74(1989)373-382

Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations
V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny 81(1991)367-381

Performance analysis of a solar still coupled to a heat exchanger
Y.P. Yadav 82(1991)244

Performance analysis of a solar still coupled to a heat exchanger
Y.P. Yadav 91(1993)135-144

Characteristics of thin film desalination plants
V. Slesarenko 94(1994)321-329

A new multiple-effect distiller system with compact heat exchangers
H. Morsy, D. Larger and K. Genthner 96(1994)59-70

Peculiarities of boiling seawater in desalination plants
V.N. Slesarenko and V.V. Slesarenko 108(1996)105-109

Heat sources

Choice and optimization of eventual heat sources for large desalting plants in Israel
J. Adar 3(1967)37-45

Gas turbines and fresh water. Technical and economic aspects *(in French)*
P.P. Chaffiotte 3(1967)46-59

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Inexpensive distillation of natural water in power plants *(in French)*
J. Mascarello 3(1967)359-362

Start-up of a thermocompression desalting plant without using external heat
S.N. Filippov, A.G. Khomenko and U.L. Zmeev 4(1968)30-31

A distillation process without energy consumption *(in French)*
W. Bongard 30(1979)583-593

Vertical tube foam evaporation for fresh water production using power plant waste-heat
H.H. Sephton 31(1979)187-195

MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry
R. Rautenbach, P. Monheim and D. Zebrowski 31(1979)197-206

Application of low-temperature waste heat distillation in nuclear plants *(in French)*
P. Combaz, J.C. Deronzier and F. Lauro 31(1979)207-218

Utilization of waste hot water for distillation
M.S. Sodha, A. Kumar and G.N. Tiwari 37(1981)325-341

Desalination plant using low grade geothermal heat
A. Ophir 40(1982)125-132

Increased water production using a heat recovery engine for "Direct Drive" VARI-RO™ Pumping
W.D. Childs and A.E. Dabiri 96(1994)81-88

Heat transfer

Study of fluid mechanics and heat transfer in multiflash desalination plants *(in French)*
R. Douvry and M. Cohen de Lara 2(1967)345-357

Improved high-performance fluted tube for thin-film evaporation and condensation
D.G. Thomas and L.G. Alexander 8(1970)13-19

Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface
D. Pnueli and G. Iddan 9(1971)285-294

Fouling in boiling liquid *(in German)*
K.-J. Schmid-Schönbein 21(1977)99-118

Hydrodynamics and heat transfer during seawater boiling in thin-film desalination plants
V. Slesarenko 21(1977)275-283

RF-FF VTE evaporator
W. Nishimoto 22(1977)1-11

A system for the experimental study of flash evaporation
N. Lior and R. Greif 31(1979)87-99

Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow
V. Slesarenko 33(1980)251-257

Some basic observations on heat transfer and evaporation in the horizontal flash evaporator
N. Lior and R. Greif 33(1980)269-286

Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes
D. Moalem-Maron, R. Semiat and S. Sideman 34(1980)289-309

An update of intube forced convection heat transfer coefficients of water
T.J. Rabas and D. Cane 44(1983)109-119

On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types
S. I. Golub, V. V. Iljushchenko, S. V. Grigorenko, U. V. Kartowsky and N. K. Tokmantsev 44(1983)137-142

Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design
V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin 45(1983)15-21

The effect of vapour shear and condensate drainage in condenses using roped tubes
J. Cunningham and M. Bahjernejad 45(1983)135-142

Hydrodynamic and heat transfer studies on fluted tubes with drainage discs
C. Özgen and H. Gökçe 45(1983)183

Large scale desalination by vapor compression
W. Bulang 45(1983)263

Influence of noncondensables on modern thermal desalination
J. Bharadwaj and V.R. Raghavan 49(1984)357-365

The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers
K. Genthner, S. Khalaf, W. Ruehle and A. Seifert 65(1987)171-186

Heat transfer in film-type evaporator with profiled tubes
V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash 74(1989)363-372

Surface evaporation in liquid flowing down an inclined groove
S. Toyama, K. Murase, S. Kimura and M. Nakamura 82(1991)387-397

Condition particularities of a jet-impact spraying desalination plant
V. Slesarenko 105(1996)185-190

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat 107(1996)111-119

Modeling multistage flash desalination plants
M. Rosso, A. Beltramini, M. Mazzotti and M. Morbidelli 108(1996)365-374

Heat transfer characteristics

The development of enhanced heat transfer condenser tubing
I. H. Newson and T. D. Hodgson 14(1974)291-323

Evaporation of butane drops in brine
H.C. Simpson, G.C. Beggs and M. Nazir 15(1974)11-23

Boiling of natural sea water in falling film evaporators
V.C. van der Mast, S.M. Read and L.A. Bromley 18(1976)71-94, Err. 18(1976)217

Heat transfer and pressure drop of corrugated tubes
K. Mimura and A. Isozaki 22(1977)131 -139

Study of thermo-physical characteristics of thin film desalination plants
V. Slesarenko and V. Gydarov 30(1979)375-383

Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes
S. Sideman and A. Levin 31(1979)7-18

Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II
T.G. Somer and C. Özgen 34(1980)249-265

Transfer characteristics of convex and concave rivulet flow on inclined surfaces with straight-edged grooves
R. Semiat, D. Moalem-Maron and S. Sideman 34(1980)267-287

Heat transfer and fluid flow characteristics in flash desalination units
E. E. Khalil, M. M. Hilal, M. F. El-Fouly and H. Z. El-Mogy 39(1981)283-294

Heat transfer coefficients

Theoretical analysis of horizontal condenser-evaporator conduits of various cross-sections
S. Sideman, D. Moalem and R. Semiat 17(1975)167-192

Heat transfer in a multi-stage flash/fluidized bed evaporator (MSF/FBE)
A.W. Veenman 22(1977)55-76

The rate of heat transfer of seawater and NaCl solutions under conditions of one- and two-phase flow in tubes
V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein 26(1978)175-180

Liquid film distributors for vertical tube evaporation desalination plants
M. Beccari, A.C. di Pinto and L. Spinosa 29(1979)295-310

Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators
J. J. Schröder, P. Fast and W. Sander-Beuermann 31(1979)19-34

Heat transfer in a rotating disk evaporator
C. S. Wang, R. Greif and A. D. K. Laird 33(1980)259-267

Vertical tube foam evaporation for water desalination
H.H. Sephton 42(1982)27-35

A theoretical study on hydrodynamics of condensate films over fluted tubes
C. Özgen and I. Tosun 45(1983)251

Equations for condensation in fluted tubes (in German)
B. Kunst 45(1983)265-279

Heat transfer in turbulent flow on a horizontal tube falling film evaporator. A theoretical approach
D. Barba and R. Di Felice 51(1984)325-333

Transient performance of a high temperature solar distillation system
Y.P. Yadav 91(1993)145-153

Heat transfer performance

Upflow vertical tube evaporation of sea water with interface enhancement: Process development by pilot plant testing
H.H. Sephton 16(1975)1-13

Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant
H.L. Fong, C.J. King and H.H. Sephton 16(1975)15-38

Heat transfer surface

Scale formation in sea water distillation plants
O. Flint and M.N. Elliot 5(1968)5-16

Calcium carbonate scale deposition on heat transfer surfaces
D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich 5(1968)107-119

Prospects for further improvement in enhanced heat transfer surfaces
D.G. Thomas 12(1973)189-215

Deposition of silica from geothermal waters on heat transfer surfaces
J.S. Gudmundsson and T.R. Bott 28(1979)125-145

Improved performance of heat transfer surfaces in desalination *(in French)*
J. Croix and F. Lauro 31(1979)35-

Multi-effect desalination plant using a plastic heat transfer surface *(in French)*
F. Lauro 31(1979)221-231

The effect of air on condensation on a roped tube
J. Cunningham and A. Holmes 38(1981)65-74

The Courtraulds desalination process
D.C.F. Pratt 42(1982)37-45

Wettability and break-up of thin films on inclined surfaces with continuous and intermittent feed
D. Moalem-Maron, G. Ingel and N. Brauner 42(1982)87-96

Heat transfer tubes

Influence of scale prevention on corrosion of heat-transfer tube
J. Sakuma, T. Takagi, S. Yamada and Y. Kibe 14(1974)189-196

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube
T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo 31(1979)389-398

Heat treatment

The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope
G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley 8(1970)369-391

Influence of some processing variables on the properties of cellulose acetate membranes. III. Temperature dependence of the desalination performance of membranes plasticized by various plasticizers
D.V. Mehta and E.A. Meinecke 10(1972)369-382

Physicochemical processes occurring during the formation of cellulose diacelate membranes, research of criteria for optimizing membrane performance. II. Influence of cellulose diacetate chain hydration on the effect of heat treatment
J. Vinit, C. Noel and L. Monnerie 15(1974)267-278

Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes
T. Uragami, K. Maekawa and M. Sugihara 27(1978)9-20

Heating surfaces

Thermal desalination of sea water in thin film plants
V.N. Slesarenko 45(1983)295-302

Heavy metal

Reverse osmosis rejection on heavy metal cations
H.K. Johnston 16(1975)205-224

The effect of heavy metal ions on the oxidation of cellulose triacetate membranes
N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi 96(1994)431-439

A water treatment and recovery plant for highly acidic heavy metal laden effluents
V. Cinanni, I.A. Gough and A.J. Sciuto 106(1996)145-150

Towards a sludgeless heavy metal finishing industry for a cleaner environment
N.H.A. Hamid and A. Idris 106(1996)411-413

Total removal of heavy metal from mixed plating rinse wastewater
N. Sapari, A. Idris and N.H.A. Hamid 106(1996)419-422

Heavy metals

Removal of heavy metals from tap water by a cation exchanger
E. Korngold, S. Belfer and C. Urtizberea 104(1996)197-201

Heavy water

Deuterium enriched brine as a by-product from desalination plants
A. Valfells 19(1976)55-64

Concentration of heavy water in seawater distillation process
T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa 25(1978)61-69

HEDP additive

A quantification of the effectiveness of an inhibitor on the growth process of a scalant
M. P. C. Weijnen, W. G. J. Marchée and G. M. van Rosmalen 47(1983)81-92

High-flux membranes

The influence of mineral fillers on the membrane properties of high flux asymmetric cellulose acetate reverse osmosis membranes
I. Goossens and A. van Haute 18(1976)203-214

High flux cellulose acetate ultrafiltration membranes
O. Kutowy, W. L. Thayer and S. Sourirajan 26(1978)195-210

High-frequency vibration

High frequency excitation and vibration studies on hyperfiltration membranes
C.C. Herrmann 42(1982)329-338

High-porosity spacer

Velocity profile caused by a high porosity spacer between parallel plates (membranes)
W.W. Focke and P.G.J.M. Nuijens 49(1984)243-253

High-pressure ice melting

Desalination by the improved vacuum freezing high pressure ice melting process
Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins 42(1982)141-151

High-temperature additives

The operation of sea water distillation plants in relation to materials selection
R. Heaton and T. A. Douglas 41(1982)71-80

High-temperature electrodialysis

Further developments in the high temperature electrodialysis
T. Bejarano, C. Forgacs and J. Rabinowitz 3(1967)129-134

Recent developments in electrodialysis at elevated temperatures
W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander 4(1968)236-247

The desalination of sea water by high temperature electrodialysis
C. Forgacs, L. Koslowsky and J. Rabinowitz 5(1968)349-358

High temperature electrodialysis
F.B. Leitz, M.A. Accomazzo and W.A. McRae 14(1974)33-41

Geothermal desalting at the East Mesa test site
W.J. Boegli, S.H. Suemoto and K.M. Trompeter 22(1977)77-90

Fresh water from the sea: a 380 cubic meter per day high temperature electrodialysis plant
W.A. McRae, E.J. Parsi and G.C. Ganzi 23(1977)401-408

Recent advances in reverse osmosis and electrodialysis membrane desalting technology
M. E. Mattson and M. Lew
41(1982)1-24

Optimization of electrodialysis process at elevated temperatures
V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
46(1983)253-262

High-temperature evaporation

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf
T.G. Temperley 33(1980)99-107

Results of four years of operation at high temperature (150°C) of Bari's desalination plant
A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
45(1983)197-207

High-temperature hyperfiltration

Application of high-temperature hyperfiltration to unit textile processes for direct recycle
C.A. Brandon and M. Samfield
24(1978)97-112

Hyperfiltration for recycle of 82°C textile wash water
C.A. Brandon 32(1980)409

High-temperature waste heat

Usability of low temperature waste heat for sea water desalination
R. Saari 39(1981)147-158

Hollow fiber, see Membranes, hollow fiber

Horizontal tube evaporators

Coupling of standard condensing nuclear power stations to horizontal aluminium tubes multieffect distillation plants
J. Adar 20(1977)143-154

Reheat type distilling plant
M. Takada, S. Kikuchi and J. Gaydos
20(1977)385-390

Performance improvement of horizontal evaporator-condenser desalination units
S. Sideman, D. Moalem and R. Semiat
21(1977)221-233

Dynamic behavior of thin film sea water evaporators
M. Schaal and F.S. Aschner
25(1978)233-252

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Investigation of heat exchange during sea water boiling in a horizontal thin film desalination plant
V. Slesarenko 29(1979)311-318

A distillation process without energy consumption *(in French)*
W. Bongard 30(1979)583-593

Multiple effect distillation with horizontal tube evaporators *(In French)*
J.C. Deronzier 31(1979)115-124

Critical analysis of a proposed solar assisted HTE desalination system
G.G. Fenton and J.P. Gerofi
33(1980)211-219

Some basic observations on heat transfer and evaporation in the horizontal flash evaporator
N. Lior and R. Greif
33(1980)269-286

Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes
D. Moalem-Maron, R. Semiat and S. Sideman 34(1980)289-309

Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant
T.R. Blake and G. Willocks
39(1981)311-322

Application of improved high-performance evaporator
M. Takada and J. C. Drake
45(1983)3-12

Hold up and flow of liquid film at a horizontal tube bundle
S. Toyama, T. Aragaki, T. Sato and H. Kato 45(1983)289-294

On the concentration of RO-brines by seeded horizontal tube falling film evaporation (HTFE)
R. Rautenbach and J. Gebel
76(1989)107-119

Progress in distillation
R. Rautenbach 93(1993)1-13

Horizontal tubes

Operation of a horizontal tube brine concentrator
J. Weinberg and Y. Rotstein
40(1982)159-168

Hold up and flow of liquid film at a horizontal tube bundle
S. Toyama, T. Aragaki, T. Sato and H. Kato 45(1983)289-294

Heat exchange at dropwise condensation in heat exchangers of desalination plants
V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi
74(1989)373-382

Human albumin

Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone
D. Düputell, E. Staude and D. Wyszynski 95(1994)75-89

Human effluent disposal

Environmental requirements for the disposal of effluent from wastewater disposal systems
G. Middle 106(1996)323-329

Human waste treatment

Night soil treatment system equipped with ultrafiltration
T. Misaki and K. Matsui
106(1996)63-70

Humate

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

The poisoning for anion-selective membranes by humic substances
E.J.M. Kobus and P.M. Heertjes
12(1973)333-342

Humic acid

Humic acid as a fouling agent in filtration
M. Nyström, K. Ruohomäki and L. Kaipia 106(1996)79-87

Humic substances

The poisoning for anion-selective membranes by humic substances
E.J.M. Kobus and P.M. Heertjes 12(1973)333-342

Pretreatment of reverse osmosis feedwater by means of in line coagulation
J. C. Schippers, J. Verdouw and J. M. Hofman 32(1980)103-112

Application of modified polysulfone membranes to the treatment of water solutions containing humic substances and metal ions
M. Kabsch-Korbutowicz and T. Winnicki 105(1996)41-49

Treatment of surface water rich in humus — Membrane filtration vs. conventional treatment
B. Ericsson and G. Trägårdh 108(1996)117-128

Nanofiltration of highly colored raw water for drinking water production
B. Ericsson, M. Hallberg and J. Wachenfeldt 108(1996)129-141

Humidification-dehumidification

Development of humidification-dehumidification technique for water desalination in arid zones of India
S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar 5(1968)55-63

Humidification-dehumidification desalination process using waste heat from a gas turbine
H.T.A. El-Dessouky 71(1989)19-33

Experimental and theoretical study of a humidification-dehumidification desalting system
M.A. Younis, M.A. Darwish and F. Juwayhel 94(1993)11-24

Solar desalination with a humidification-dehumidification cycle
M. Farid and A.W. Al-Hajaj 106(1996)427-429

A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan
N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi 109(1997)277-284

Hybrid Absorption/MED

Theoretical study of a solar powered absorption/MED combined system
K. Fathalah and S.E. Aly 82(1991)245

Hybrid desalination

Desalination of sea water by an electrodialysis-reverse osmosis hybrid system
H. Schmoldt, H. Strathmann and J. Kaschemekat 38(1981)567-582

Engineering design of a 6000 m^3/day seawater hybrid RO-ED helio-desalting plant
A.A. Husseiny and H.L. Hamester 39(1981)171-172

Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis
G. van Opbergen, T. Peters, R. Rautenbach and H. Tils 47(1983)267-274

Hybrid desalting technology maximizes recovery
H. Kohli, D. Emmermann, R. Kadaj and H. Said 56(1985)61-68

Prospects of hybrid RO-MSF desalting plants in Kuwait
A.M.R. Al-Marafie 72(1989)395-404

Integrated production of power and water
M.A.-K. Al-Sofi 76(1989)89-105

Optimum design for a hybrid desalting plant
I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem 76(1989)177-187

Hybrid desalting systems
L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast 76(1989)189-197

Process arrangements for hybrid sea water desalination plants
I.Kamal, W. Schneider and G.F. Tusel 76(1989)323-335

Baja California desalination project. Feasibility study report: Large scale dual purpose hybrid desalination plant
D.C. Nerell, J.A. Statton and G. Borsteins 88(1992)123-143

Hybrid membranes

Hybrid reverse osmosis ultrafiltration membranes
S.B. Sachs, E. Zisner and G. Herscovici 18(1976)99-111

Large scale diesel driven vapor compression units
R. Rautenbach and B. Arzt 38(1981)75-84

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel 44(1983)61-72

Hybrid Multistage flash/fluidized bed evaporator

The MSF/FBE: An improved multi-stage flash distillation process
A.W. Veenman 19(1976)1-14

Heat transfer in a multi-stage flash/fluidized bed evaporator (MSF/FBE)
A.W. Veenman 22(1977)55-76

A comparison of the operating characteristics of conventional multi-stage flash evaporation and multi-stage flash/fluidized bed evaporation
G. Spanhaak 31(1979)511-519

Hybrid multistage flash/vapor compression evaporation

Solutions for coupling a mechanical vapour compression distiller with a multi-stage-flash evaporator
K. Genthner and M.M. El-Allawy 45(1983)143-152

Hybrid multistage flash/vertical tube evaporation

Design, construction and operation of a combined MSF/VTE-test evaporator
J. Hapke and A. Mader 45(1983)35-36

Process and layout design of a combined MSF/VTE plant
J. Hapke and B. Uckermann 45(1983)113-114

Hybrid multistage/vertical tube evaporation

Seawater desalination with very low energy consumption
L. Cavalieri and G. Nasser
44(1983)143-151

Hybrid plants

Total desalination of brackish water
R. Rautenbach and K.H. Henne
30(1979)581

Desalination and water reuse. Comparison of MSF and RO in dual purpose power and water plants
N. M. Wade, R. Heaton and D. G. Boulter 55(1985)373-386

Hybrid plants Cogeneration Reverse Osmosis

Cogeneration desalination with reverse osmosis: A means of augmenting water supplies in Southern California
I. Kamal 88(1992)355-369

Hybrid power generation/water distillation

Gas turbines and fresh water. Technical and economic aspects *(in French)*
P.P. Chaffiotte 3(1967)46-59

Inexpensive distillation of natural water in power plants *(in French)*
J. Mascarello 3(1967)359-362

Hybrid processes

Hybrid processes involving membranes for the treatment of highly organic/inorganic contaminated waste water
R. Rautenbach and R. Mellis
101(1995)105-113

Hybrid Reverse osmosis/crystallization plant

Total desalination of brackish water
R. Rautenbach and K.H. Henne
30(1979)581

Hybrid reverse osmosis/direct contact freezing system

A combined RO/freezing system to reduce inland rejected brine
A.A. Madani and S.E. Aly
75(1989)241-258

Hybrid reverse osmosis/ion exchange

Conjunctive use of reverse osmosis and thermally regenerated ion-exchange
D.W. Coillet and J.E. Cruver
23(1977)575-586

Hybrid Reverse osmosis/multi-stage flash plant

Hybrid desalting systems — A new alternative
L. Awerbuch, V. van der Mast and R. Soo-Hoo 64(1987)51-63

Hybrid Reverse osmosis/vapor compression

Combined RO/VC desalination system
S.E. Aly 58(1986)85-97

Hybrid Steam ejection/vapor compression

Large scale diesel driven vapor compression units
R. Rautenbach and B. Arzt
38(1981)75-84

Hybrid systems

Combined RO/VC desalination system
S.E. Aly 58(1986)85-97

Hybrid Vapor compression/vertical tube evaporator

Basic parameters of design on a VC-VTE process with high ER
J. Cortés and F. Cantera
55(1985)69-76

Hybrid Vertical tube evaporation/vapor compression

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D.K. Emmermann and G.F. Tusel 30(1979)499

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D. K. Emmermann and G. F. Tusel 33(1980)229-239

Basic parameters of design on a VC-VTE process with high ER
J. Cortés and F. Cantera
55(1985)69-76

Hydrate desalination

Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis
S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
11(1972)31-59

Hydrate formation

Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions
W.W. Carey, N.A. Klausutis and A.J. Barduhn 1(1966)342-358

Concentration and demineralization of sea water by the hydrate process
J. Sugi and S. Saito 3(1967)27-31

Hydrate formation in *i*-butane-*n*-butane or a butene isomer water system at a given temperature
T. Uchida and I. Hayano
3(1967)373-377

Hydrates of iso- and normal butane and their mixtures
O.S. Rouher and A.J. Barduhn
6(1969)57-73

The kinetics of methyl bromide hydrate formation
J.B. Pangborn and A.J. Barduhn
8(1970)35-68

The rate of formation of the hydrates of F-31 (CH_2ClF) and F-142b (CH_3CClF_2) in a stirred tank reactor
A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern
18(1976)59-69

Hydrate process performance with low density additives
W. Schneider and F.V. Waller
18(1976)189-202

Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane
S. Reich, B. Gavish and S. Lifson
24(1978)295-296

Thermodynamic properties of F-22($CHClF_2$) hydrate for use in desalting
A.J. Barduhn and W.-C. Lee
25(1978)151-162

Hydrate process

The state of the crystallization processes for desalting saline waters
A.J. Barduhn 5(1968)173-184

The properties of the hydrates of chlorine and carbon dioxide
A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn
16(1975)303-320

Interfacial phenomena — Bioadhesion and biocompatibility
K. Larsson 35(1980)105-114

Hydraulic coupling

Behavior of a freely draining rectangular hydraulic piston wash separator
F.O. Mixon 7(1970)229-243

The effect of hydraulic jump on the performance of a single-stage flash evaporator
A.H. Abdelmessih and I.C. Hsu
19(1976)65-74

Reverse running centrifugal pumps as hydraulic power recovery turbines for seawater reverse osmosis systems
W. A. Raja and R. W. Piazza
38(1981)123-134

Utilisation of hydraulic coupling for brine recirculation pumps
R. El-Assar and M. Lenhard
44(1983)91-97

Hydraulic principles

Hydraulic principles for the design of electrodialysis desalination plants
V.A. Klyachko and L.D. Ushakov
2(1967)279-282

Hydraulic refrigeration

Freeze desalination using hydraulic refrigerant compressors
W. Rice and D.S.C. Chau
109(1997)157164

Hydraulic turbine energy recovery

Hydraulic turbine energy recovery — RO system
R. Singh and S.V. Cabibbo
32(1980)281-296

Energy recovery and pumping for 70-bar seawater osmosis *(in French)*
L. Goulvestre and C. Lepert
32(1980)297-302

The hydraulic turbocharger™: A new type of device for the reduction of feed pump energy consumption in reverse osmosis systems
J. Lozier, E. Oklejas and M. Silbernagel 75(1989)71-83

Hydrochloric acid

Increased solubility of calcium sulphate in sea water containing hydrochloric acid
O. Flint 4(1968)328-335

Electric resistance of ion-exchange membranes in dilute solutions
K. Urano, Y. Masaki and M. Kawabata 58(1986)171-176

Electrodialysis of hydrochloric acid
A. Lindheimer, M. Boudet-Dumy and C. Gavach 94(1993)151-165

Acids and iron salts removal from rinsing water after metal etching
J. Wisniewski and G. Wisniewska
109(1997)187-193

Hydrodynamic characteristics

Electrodialysis in the regeneration of paper mill spent liquor
K. Radhamohan and S. Basu
33(1980)185-200

Effect of characterizations of spacer in electrodialysis cells on mass transfer
X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li 46(1983)243-252

Hydrodynamics

A hydrodynamic theory of desalination by electrodialysis
A.A. Sonin and R.F. Probstein
5(1968)293-329, Err. 6(1969)270

Measurement of the hydrodynamic permeability of membranes with fine pores
C. Steymans and H. Fischer
6(1969)203-214

Experimental study of the effects of hydrodynamics and membrane fouling in electrodialysis
G. Grossman and A.A. Sonin
10(1972)157-180

An experimental study of electrodialysis hydrodynamics
G. Belfort and G.A. Guter
10(1972)221-262

Hydrodynamics and heat transfer during seawater boiling in thin-film desalination plants
V. Slesarenko 21(1977)275-283

Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators
J. J. Schröder, P. Fast and W. Sander-Beuermann 31(1979)19-34

Mass transfer in the U-turn of an electrodialyzer
In Ho Kim, In Soek Kang and Ho Nam Chang 33(1980)139-161

Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow
V. Slesarenko 33(1980)251-257

Hydrodynamics of condensate films on fluted tube surfaces. Part I
T.G. Somer and C. Özgen
34(1980)233-247

Comparative analysis of the efficiency of thermal desalination plants
V. Slesarenko and A. Shtim
37(1981)269-277

Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design
V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin 45(1983)15-21

Hydrodynamic and heat transfer studies on fluted tubes with drainage discs
C. Özgen and H. Gökçe 45(1983)183

A theoretical study on hydrodynamics of condensate films over fluted tubes
C. Özgen and I. Tosun 45(1983)251

Hold up and flow of liquid film at a horizontal tube bundle
S. Toyama, T. Aragaki, T. Sato and H. Kato 45(1983)289-294

Towards an inductive understanding of membrane fouling
G. Belfort and W. Altena
47(1983)105-127

The influence of separators on hydrodynamics and mass transfer in narrow cells: Flow visualisation
P. Feron and G.S. Solt
84(1991)137-152

Characteristics of thin film desalination plants
V. Slesarenko 94(1994)321-329

Hydrogeology

Investigations of groundwater resources in Central Jordan
H. Bender, M. Hobler, H. Klinge and K. Schelkes 72(1989)161-170

Hydrolysis

Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis
S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
11(1972)31-59

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data
G.L. Stepakoff and A.P. Modica
12(1973)239-250

Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack
J. C. Watters, E. Klein, M. Fleischman, J. S. Roberts and B. Hall
60(1986)93-110

Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures
M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya
80(1991)139-158

Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis
A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
96(1994)451-457

Hydroxyethylidenediphosphonic acid

The threshold scale inhibition phenomenon
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
31(1979)257-266

A quantification of the effectiveness of an inhibitor on the growth process of a scalant
M. P. C. Weijnen, W. G. J. Marchée and G. M. van Rosmalen
47(1983)81-92

Hyperfiltration

Principles of water desalination by hyperfiltration
K.N. Karelin 3(1967)207-212

Some remarks on the integration of the extended Nernst-Planck equations in the hyperfiltration of multicomponent solutions
L. Dresner 10(1972)27-46

Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis
L. Dresner 15(1974)109-125

Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results
F. Bellucci, E. Drioli and A. Pozzi
16(1975)287-301

Full-scale demonstration of hyperfiltration for closed-cycle textile dyeing facility
C.A. Brandon and J.L. Gaddis
23(1977)19-28

Hyperfiltration of nonelectrolytes: Dependence of rejection on solubility parameters
H.G. Spencer 28(1979)117-124

Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions
F. Bellucci and N. Esposito
28(1979)181-191

Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
W. Pusch, Y.-L. Yu and L.-Y. Zheng
75(1989)3-14

Hyperfiltration equipment

Use of thin-channel systems for ultrafiltration and hyperfiltration
W. K. Nielsen and R. F. Madsen
34(1980)113-130

Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration
C. A. Brandon, D. A. Jernigan, J. L. Gaddis and H. G. Spencer
39(1981)301-310

Hyperfiltration membranes

Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method
R.J. Raridon, L. Dresner and K.A. Kraus 1(1966)210-224

Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (1)
K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor 1(1966)225-230

Thermodynamics of hyperfiltration (reverse osmosis): criteria for efficient membranes
K.S. Spiegler and O. Kedem
1(1966)311-326

Transport coefficients and salt rejection in uncharged hyperfiltration membranes
J. Jagur-Grodzinski and O. Kedem
1(1966)327-341

Hyperfiltration studies. X. Hyperfiltration with dynamically-formed membranes
K.A. Kraus, A.J. Shor and J.S. Johnson, Jr. 2(1967)243-266

Principles of water desalination by hyperfiltration
K.N. Karelin 3(1967)207-212

Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes
W.L. Griffith, R.M. Keller and K.A.Kraus 4(1968)283-308, Err. 11(1972)129

Negative rejection of acids and separation of ions by hyperfiltration
E. Hoffer and O. Kedem
5(1968)167-172

Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes
J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona 5(1968)359-369

Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes
S.B. Sachs, W.H. Baldwin and J.S. Johnson 6(1969)215-228

Effect of high axial velocity on performance of cellulose acetate hyperfiltration membranes
J.D. Sheppard and D.G. Thomas
8(1970)1-12

Asymmetric behaviour of cellulose acetate membranes in hyperfiltration experiments as a result of concentration polarisation
R. Gröpl and W. Pusch
8(1970)277-292

Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes
P. Hoornaert, C. Lefebvre and A. Van Haute 11(1972)315-327

Preparation and properties of membranes obtained by radiation induced grafting of 4-vinylpyridine onto polytetrafluoroethylene films
G. Canepa, S. Munari, C. Rossi and F. Vigo 13(1973)159-170

Brackish water salt rejection by porous hyperfiltration membranes
R.F. Probstein, A.A. Sonin and D. Yung 13(1973)303-316

Engineering development of hyperfiltration with dynamic membranes. Part I. Process and module development
D.G. Thomas and W.R. Mixon
15(1974)287-323

A molecular friction model for transport of uncharged solutes in neutral hyperfiltration and ultrafiltration membranes containing bound water
G. Belfort 18(1976)259-281

Artificial particulate fouling of hyperfiltration membranes
G. Belfort, G. Alexandrowicz and B. Marx 19(1976)127-138

Note on the paper "Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method"
P.S. Ravishankar 21(1977)341-342, Err. 1(1966)210

On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes
L. Broens, D.M. Koenhen and C.A. Smolders 22(1977)205-219

Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis
J.L. Halary, C. Nöel and L. Monnerie
32(1980)65-76

Laboratory experiments with hyperfiltration membranes
W. Schneider and O. Bauer
34(1980)11-23

Production of whey protein concentrates with high solids content
J. Rubin 35(1980)193-199

Amphoteric membrane preparation and their application to saline water hyperfiltration
F. Vigo, G. Capannelli and S. Munari
37(1981)313-324

The application of thin film composite membranes in plate-and-frame systems for water purification
W. K. Nielsen and S. Kristensen
38(1981)383-396

Effects of surfactants on the hyperfiltration performance of dynamic membranes
R.J. Luppino and H.G. Spencer
41(1982)33-45

The prospects of water removal by hyperfiltration Using thin film composite membranes
W. K. Nielsen and S. Kristensen
41(1982)277-288

High frequency excitation and vibration studies on hyperfiltration membranes
C.C. Herrmann 42(1982)329-338

Hyperfiltration through crosslinked monolayers II
S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring 46(1983)369-378

Transport coefficients of Asymmetric and composite membranes
J.-Y. Chen, M. Kurihara and W. Pusch 46(1983)379-388

Temperature dependence of membrane transport parameters in hyperfiltration
J.-Y. Chen, H. Nomura and W. Pusch
46(1983)437-446

Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse
G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson 47(1983)305-312

Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams
J. J. Porter and G. A. Goodman
49(1984)185-192

Properties of dynamically-formed polyblend membranes
H.G. Spencer, D.K. Todd and D.B. McClellan 49(1984)193-201

Hyperfiltration of surfactants containing solutions from the plating industry
E. Staude, W. Assenmacher and H. Hoffmann 49(1984)321-333

Hyperfiltration properties of a zirconium (IV) hydrous oxide-polyacrylate membrane in electrolyte-alcohol-water solutions
S. Yarlagadda and H. G. Spencer
79(1990)37-45

Modeling multiion transport in hyperfiltration membranes with fixed charges
K.S. Menon and H.G. Spencer
80(1991)31-42

Hyperfiltration membranes, fouling

Membrane fouling. Part IV. Parallel operation of four tubular hyperfiltration modules at different velocities with feeds of high fouling potential
J.D. Sheppard, D.G. Thomas and K.C. Channabasappa 11(1972)385-398

Artificial particulate fouling of hyperfiltration membranes. II. Analysis and protection from fouling
G. Belfort and B. Marx 28(1979)13-30

Artificial particulate fouling of hyperfiltration membranes IV. Dynamic protection from fouling
G. Belfort 34(1980)159-169

A contribution to fouling in hyperfiltration induced by chemical reaction
E. Staude and W. Assenmacher 49(1984)215-228

Hyperfiltration, model studies

Thermodynamics of hyperfiltration (reverse osmosis): criteria for efficient membrane
K.S. Spiegler and O. Kedem 1(1966)311-326

Hyperfiltration in charged membranes: the fixed charge model
E. Hoffer and O. Kedem 2(1967)25-39

Brackish water salt rejection by porous hyperfiltration membranes
R.F. Probstein, A.A. Sonin and D. Yung 13(1973)303-316

Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results
F. Bellucci, E. Drioli and A. Pozzi 16(1975)287-301

A morphological approach to desalination in hyperfiltration
R.D. Sanderson and H.S. Pienaar 25(1978)281-301

Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions
F. Bellucci and N. Esposito 28(1979)181-191

Laboratory experiments with hyperfiltration membranes
W. Schneider and O. Bauer 34(1980)11-23

Electrolyte exclusion model for hyperfiltration of electrolyte solutions by charged gel membranes
H. G. Spencer 52(1984)1-8

Hyperfiltration plants

Hyperfiltration studies XVIII. The optimization of two-stage plants for desalination of brackish waters
J.J. Perona, T.W. Pickel and K.A. Kraus 8(1970)73-91

The role of turbulence promoters in hyperfiltration plant optimizatlon
D.G. Thomas, W.L. Griffith and R.M. Keller 9(1971)33-50

Effect of brine disposal cost on hyperfiltration plant optimization
W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr. 11(1972)91 .,-112

Multistage hyperfiltration plants for the desalination of brackish waters
J.J. Perona and R.S. Dillon 11(1972)149-163

Engineering development of hyperfiltration with dynamic membranes. Part II. Brackish water pretreatment pilot plant
J.D. Sheppard and D.G. Thomas 15(1974)307-323

Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed
D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard 15(1974)325-341

Engineering development of hyperfiltration with dynamic membranes. Part IV. Economic analysis
D.G. Thomas 15(1974)343-369

Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia
A.M. El-Nashar and A.A. Husseiny 19(1976)189-199

Hyperfiltration processes

Hyperfiltration in porous fixed charge membranes
R. Simons and O. Kedem 13(1973)1-16

On the measurement of streaming potentials with silver-silver chloride electrodes
K.S. Spiegler 15(1974)135, Err. 16(1975)260

Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions
F. Bellucci and N. Esposito 28(1979)181-191

Experience with plate-and-frame ultrafiltration and hyperfiltration systems for desalination of water and purification of waste water
W. K. Nielsen, R. F. Madsen and O. J. Olsen 32(1980)309-326

An optimized hyperfiltration process for concentrating aqueous solutions of high osmotic pressure
H. F. Van Wijk, A. E. Jansen and R. J. M. Creusen 51(1984)103-112

Ice coolant

Icebergs for reservoirs, fresh water and cooling
J.L. Hult 29(1979)41

Ice cooled ocean thermal energy conversion plants
D.J. DeMarle 29(1979)153-163

An integrated ice-water system
D. W. Coillet 29(1979)191-196

Ice crystal formation

Crystallization of ice from salt solutions *(in German)*
W. Schneider and K. Fischbeck 5(1968)217-230

Induced crystallization of large free ice crystals in slowly flowing brine
E.F. Janzow and B.T. Chao 12(1973)163-175

The growth and nucleation of ice in a batch Couette flow crystallizer
J.S. Wey and J. Estrin 14(1974)103-120

The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers
S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim 17(1975)3-16

Ice crystal growth

Growth rate of ice crystals
R. Fernandez and A.J. Barduhn 3(1967)330-342

Nucleation and growth of ice crystals in secondary refrigerant freezing
J.C. Orcutt 7(1969)75-96

Salt entrainment in ice crystallized from brine
E.F. Janzow and B.T. Chao
12(1973)141-161

Growth of ice crystals
H.C. Simpson, G.C. Beggs, J. Deans and J. Nakamura 14(1974)341-357

The C-axis growth rate of ice crystals
H.C. Simpson, G.C. Beggs, J. Nakamura and A. Baxter
18(1976)219-230

Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions
G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath 36(1981)87-97

Why does ice grow faster from salt water than from fresh water?
A.J. Barduhn and J.S. Huang
67(1987)99-106

Ice crystal nucleation

Nucleation and growth of ice crystals in secondary refrigerant freezing
J.C. Orcutt 7(1969)75-96

Ice crystallization

Induced crystallization of large free ice crystals in slowly flowing brine
E.F. Janzow and B.T. Chao
12(1973)163-175

The growth and nucleation of ice in a batch Couette flow crystallizer
J.S. Wey and J. Estrin
14(1974)103-120

Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process
W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
14(1974)263-290

Iceberg transport

Ocean thermal energy conversion (OTEC) tugboats for iceberg towing in tropical waters
D.S. Sasscer and U. Ortabasi
28(1979)225-232

Icebergs used and theory with suggestions for the future
J.M. Day 29(1979)25-40

The eighth voyage aboard Al Hammal: A study of the transport of a large tubular iceberg from the Antarctic to the Arabian Peninsula
D.W. Coillet and R.M. Dunlap
29(1979)47-78

The eighth voyage aboard Al Hammal: A study of the transport of a large tubular iceberg from the Antarctic to the Arabian Peninsula
D.W. Coillet and R.M. Dunlap
29(1979)47-78

Towage of an iceberg
L. Montfort and C. Oudendijk
29(1979)79-95

Geophysical aspects of a large iceberg tow
D. C. David 29(1979)135-152

The role of liquid oxygen explosive in iceberg utilization and development
G.L. Tate 29(1979)167-172

Iceberg utilization

Icebergs used and theory with suggestions for the future
J.M. Day 29(1979)25-40

Icebergs for reservoirs, fresh water and cooling
J.L. Hult 29(1979)41

Legal and environmental concerns in using icebergs
J.L. Hult 29(1979)165

The role of liquid oxygen explosive in iceberg utilization and development
G.L. Tate 29(1979)167-172

Iceberg utilization and alternative systems related to fresh water transport — Recycling and supplementary desalinization
C.D. Looyen 29(1979)173-189

An integrated ice-water system
D. W. Coillet 29(1979)191-196

Icebergs

Terradynamics as applied to ice
A. Pope 29(1979)17-23

The eighth voyage aboard Al Hammal: A study of the transport of a large tubular iceberg from the Antarctic to the Arabian Peninsula
D.W. Coillet and R.M. Dunlap
29(1979)47-78

Determination of iceberg underwater shape with impulse radar
J.R. Rossiter and K.A. Gustajtis
29(1979)99-107

The capability of SAR systems for iceberg detection and characterization
R. Rawson, R. Larson, R. Shuchman and R. Worsfold 29(1979)109-133

The role of liquid oxygen explosive in iceberg utilization and development
G.L. Tate 29(1979)167-172

Icebergs, Antarctic

Water supply and weather modifications through the use of transported icebergs from the Antarctic
M. Al-Faisal 20(1977)415-423

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Water supply and weather modifications from transferred iceberg from Antarctica to countries of the world's "thirst belt"
P.E. Victor 29(1979)7-15

Harnessing and exporting Antarctic icebergs
J.L. Hult and N.C. Ostrander
29(1979)43-44

Selecting and acquiring Antarctic icebergs for export
J.L. Hult 29(1979)45

Protecting Antarctic icebergs for export
J.L. Hult 29(1979)97

IDEA

A recollection of the prehistory of 'IDEA'
R. E. Bailie 50(1984)15-16

Incoloy

Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater
T. Hodgkiess and A. Asimakopoulos
38(1981)247-256

A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C
T. Hodgkiess and S. Rigas
44(1983)283-294

Industrial applications

Some viewpoints on the industrial application of membrane technology
J. Murkes 24(1978)225-233

Membrane technology in the rationalization of industrial processes: Experimental results
E. Drioli 46(1983)181

Survey of long time behavior and costs of industrial fluidized bed heat exchangers
R. Rautenbach and T. Katz
108(1996)335-344

Industrial Effluents

Membranes separations technology for industrial effluent treatment — A review
P.S. Cartwright 56(1985)17-35

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

A water treatment and recovery plant for highly acidic heavy metal laden effluents
V. Cinanni, I.A. Gough and A.J. Sciuto 106(1996)145-150

Industrial water

Development of humidification-dehumidification technique for water desalination in arid zones of India
S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar 5(1968)55-63

Fouling of cellulose acetate tubular reverse osmosis modules treating the industrial water in Tokyo
S. Kimura and S.-I. Nakao
17(1975)267-288

MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry
R. Rautenbach, P. Monheim and D. Zebrowski 31(1979)197-206

The role of membrane technology in industrial water and wastewater management
O.O. Hart and R.C. Squires
56(1985)69-87

Inorganic ion rejection

Reverse osmosis rejection on heavy metal cations
H.K. Johnston 16(1975)205-224

The permselective coefficient of inorganic ions on reverse osmosis membrane
M. Igawa, S. Yoshida, T. Yamabe and N. Takai 17(1975)257-265

Inorganic membranes

Inorganic ion-exchange membranes and their application to electrodialysis
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 1(1966)231-246

Electrodialytic demineralization of brackish waters by using inorganic ion exchange membranes
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 5(1968)371-390

Investigation of inorganic ion exchange membranes for electrodialysis
H.K. Bishop, J.A. Bittles and G.A. Guter 6(1969)369-380

Experimental reverse osmosis apparatus for membranes in the external surface of ceramic tubes
E. Korngold and F. de Körösy
11(1972)125-127

Interfacial phenomena

Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface
D. Pnueli and G. Iddan
9(1971)285-294

Upflow vertical tube evaporation of sea water with interface enhancement: Process development by pilot plant testing
H.H. Sephton 16(1975)1-13

Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant
H.L. Fong, C.J. King and H.H. Sephton 16(1975)15-38

Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges
L. Liberti, G. Boari and R. Passino
26(1978)181-194

Interfacial phenomena — Bioadhesion and biocompatibility
K. Larsson 35(1980)105-114

Interpolymer membranes

Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid)
T. Uragami, M. Fujimoto and M. Sugihara 34(1980)311-323

Desalination of brackish water by electrodialysis
W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan 42(1982)97-105

Polarization studies on interpolymer ion exchange membranes
V.K. Indusekhar and N. Krishnaswamy 48(1983)267-279

Ion exchange

Desalination of saline water through ion exchange *(in German)*
S. Vajna 3(1967)91-96

Desalination by an ion exchange-precipitation-complex process
A.R. Glueck 4(1968)32-37

Calcium removal from sea water by fixed-bed ion exchange
G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen 4(1968)158-166

A preliminary technical and economic investigation of sea water demineralization by ion-exchange for calcium and bicarbonate ions and their subsequent removal by thermal decomposition
J.P. Ranck 6(1969)75-85

Ion exclusion from neutral and slightly charged pores
L. Dresner 15(1974)39-57

Exchange equilibria on anion resins
G. Boari, L. Liberti, C. Merli and R. Passino 15(1974)145-166

An ion-exchange process with thermal regeneration. X. Removal of dissolved oxygen from the feedwater
W.G.C. Raper 17(1975)325-328

Advanced evaporation plants with sulfate removal by ion exchange
G. Boari, L. Liberti, M. Santori and L. Spinosa 19(1976)283-298

Desalination of Rhine River water by ion exchange. Part 1. Pilot plant studies of lime slurry regeneration
S. Evans and R.M. Gomes 19(1976)433-438

Desalting in Australia: The development of a new process for brackish water
P.M. Sharples and B.A. Bolto 20(1977)391-401

An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins
B.A. Bolto and A.S. MacPherson 21(1977)71-82

Re-use of treated laboratory effluents by a treatment system incorporating the 'Sirotherm' desalination process
T. Maeda 23(1977)161-170

Conjunctive use of reverse osmosis and thermally regenerated ion-exchange
D.W. Coillet and J.E. Cruver 23(1977)575-586

Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system
O. Kedem, I. Rubinstein and L.A. Segel 27(1978)143-156

Waste water recycling by ion-exchange: I. Complete desalination
Y. Egozy, E. Korngold and N.C. Daltrophe 33(1980)123-137

Waste water recycling by ion-exchange: II. Partial desalination
Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun 33(1980)333-346

Evaluation of an ion-exchange system regenerated with seawater for the increase of product recovery of reverse osmosis brackish water plant
M. Wilf, M. Konstantin and A. Chencinsky 34(1980)189-197

High temperature distillation process with sea water feed decalcification pretreatment
D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri 40(1982)347-355

A consideration on flow distribution in an ion exchange compartment with spacer
H. Miyoshi, T. Fukumoto and T. Kataoka 42(1982)47-55

Uptake of electrolytes by cellulose acetate membranes
G. Mossa and R. Passino 46(1983)417-424

Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange
L. Liberti, R. Passino and D. Petruzzelli 48(1983)55-66

Measurements and control in ion exchange installations
F.X. McGarvey and S.A. Fischer 59(1986)403-424

Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations
O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert 71(1989)337-345

Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1
G. Ali, J.H. Dalton, P.D. Judges and C. Tao 76(1989)27-37

Chromium removal from water by ion exchange using zeolite
M. Pansini, C. Colella and M. de' Gennaro 83(1991)145-157

Water desalination by ion-exchange hollow fibers
E. Korngold and D. Vofsi 84(1991)123-135

Studies on polarity reversal with continuous deionization
Y. Oren and Y. Egozy 86(1992)155-172

Studies of ion-exchange fiber "IONEX" for precoating material
M. Henmi and T. Yoshioka 91(1993)319-331

KACST mobile drinking water treatment plant for research
A.I. Alabdula'aly and A.A. Chammem 98(1994)71-82

Total removal of heavy metal from mixed plating rinse wastewater
N. Sapari, A. Idris and N.H.A. Hamid 106(1996)419-422

Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept
V. Mavrov, H. Chmiel, B. Heitele and F. Rögener 108(1996)159-166

Electroplating rinse waste water treatment by ion exchange
I. Dobrevsky, M. Dimova-Todorova and T. Panayotova 108(1996)277-280

Purification of textile wastewater effluents by a combined Fenton process and ion exchange
Sheng H.Lin and Ming L. Chen 109(1997)121-130

Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers
M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar 109(1997)303-313

Ion exchange equipment

A new ion exchange approach to the treatment of brackish waters
B. Vassiliou and P. Sturla 5(1968)40-48

An ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demineralisation of brackish waters
H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys 12(1973)217-237

The Avco continuous moving bed ion-exchange process and large scale desalting
H. Gold, A. Todisco, A.A. Sonin and R.F. Probstein 17(1975)97-109

Ion exchange pr treatment using desalting plant concentrate for regeneration
C. van Hoek, J.W. Kaakinen and L.A. Haugseth 19(1976)471-479

Ion exchange kinetics

Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates
L. Liberti, G. Boari and R. Passino 25(1978)123-134

Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges
L. Liberti, G. Boari and R. Passino
26(1978)181-194

Kinetic investigation of the chloride — sulphate exchange on anion-exchange resins
L. Liberti and G. Schmuckler
27(1978)253-260

Chloride-sulphate exchange on anion resins, kinetic investigations. VI. Differential exchange rates in diluted systems
L. Liberti, A. Pinto and R. Passino
29(1979)255-262

Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins
L. Liberti, R. Passino and D. Petruzzelli 41(1982)199-207

Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins
Z. Matejka and J. Eliasek
42(1982)315-320

Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange
L. Liberti, R. Passino and D. Petruzzelli 48(1983)55-66

Cation exchange kinetics on carboxylic acid resins in a multicomponent system
$H—Me^{+}—Me^{2+}$
T. Herrera, Z. Matejka and J. Eliasek
48(1983)161-169

Ion exchange membranes

Inorganic ion-exchange membranes and their application to electrodialysis
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 1(1966)231-246

Characterization of ion-exchange membranes by polarization curves
W. Kooistra 2(1967)139-147

Concentration polarization effect in ion exchange membrane electrodialysis
T. Yamabe and M. Seno
2(1967)148-153

Ionic membrane electrodialyzer for marine use
S. Itoi 2(1967)378-386

Compact apparatus for sea water desalination by electrodialysis using ion-exchange membranes
Y. Tsunoda and M. Kato
3(1967)66-81

Demineralization with ion-exchange materials
B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy
3(1967)183-194

Neutrality-disturbance phenomenon of membrane-solution systems
Y. Oda and T. Yawataya
5(1968)129-138

Electrodialytic demineralization of brackish waters by using inorganic ion-exchange membranes
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 5(1968)371-390

Investigation of inorganic ion exchange membranes for electrodialysis
H.K. Bishop, J.A. Bittles and G.A. Guter 6(1969)369-380

The structural polarization in some ion exchange membranes during continued transfer of direct current
C. Forgacs 7(1969)111-121

Transfer rates in electrodialysis with ion exchange membranes
A. Kitamoto and Y. Takashima
9(1971)51-87

Electrostatic phenomena in ion exchange membranes
S. D'Alessandro and A. Tantillo
9(1971)225-234

Polarization at ion exchange membrane solution interfaces
K.S. Spiegler 9(1971)367-385

Some remarks on the integration of the extended Nernst-Planck equations in the hyperfiltration of multicomponent solutions
L. Dresner 10(1972)27-46

Polarization at ion-exchange membranes in electrodialysis
C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler
10(1972)181-214

Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off
M. Metayer, C. Bourdillon and E. Selegny 13(1973)129-146

Transport within ion-exchange membranes
R.A. Wallace and J.P. Ampaya
14(1974)121-134

Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis
L. Dresner 15(1974)109-125

A method of characterizing ion-exchange membranes by conductance measurements
F.L. Ramp 16(1975)321-329

New anion-exchange membrane resistant to organic fouling
K. Kusumoto and Y. Mizutani
17(1975)111-120

Formation of alkaline scale in heating brine obtained by the ion-exchange membrane method
S. Sugita 17(1975)231-237

Present status of electrodialysis process in Japan
K. Urano 20(1977)365-374

Determination of transport properties and limiting current densities of ion exchange membrane stacks
K. Hattenbach and K. Kneifel
21(1977)317-326

A study on the transport behavior of cations in ion exchange membrane electrodialysis
Tingchia Huang and Tentsai Wang
21(1977)327-340

Development of ion exchange membrane technology
T. Seto, H. Kawate and R. Komori
22(1977)495-504

Present status of electrodialysis in Japan
T. Yamabe 23(1977)195-202

New electrodialyser system with automatic chemical cleaning
M. Kishi, S. Serizawa and M. Nakano
23(1977)203-212

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCl solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

New developments in polyethylene-based membranes
R. Messalem, C. Forgacs and O. Kedem 24(1978)93

Morphology of polyethylene-based ion exchange membranes
B. Bikson, J. Jagur-Grodzinski and D. Vofsi 24(1978)95-96

The structure and relative transport number of sulphonated polysulphone membranes
N. Vinnikova and G.B. Tanny 24(1978)191-192

The origin and elimination of water splitting in ion exchange membranes during water demineralisation by electrodialysis
R. Simons 28(1979)41-42

Investigation of pore structure of ion exchange membranes
I. Dobrevsky and A. Zvezdov 28(1979)283-289

Properties and long-term behavior of ion exchange membranes
K. Kneifel and K. Hattenbach 34(1980)77-95

Desalination of brackish water by electrodialysis
W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan 42(1982)97-105

Polarization effects at charged membranes
O. Kedem and I. Rubinstein 46(1983)185-189

The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions
N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov 46(1983)197-201

Heat regime of ion-exchange membranes' performance
A.M. Kusavsky and V.P. Shulika 46(1983)203-210

Optimization of electrodialysis process at elevated temperatures
V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov 46(1983)253-262

EDS: sealed cell electrodialysis
O. Kedem, J. Cohen, A. Warshawsky and N. Kahana 46(1983)291-299

Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents
B. Chakravorty, R. N. Mukherjee and S. Basu 46(1983)353-360

Preparation of ion-exchange membranes from modified polyethylene with high molecular weight
A.D. Dimov and I. Alexcandrova 46(1983)361-366

Fouling in steady and unsteady state electrodialysis
D.W. Thompson and A.-Y. Tremblay 47(1983)181-188

Desalination and reuse of industrial wastewater by electrodialysis
K. Sato, S. Kobayashi and S. Okado 47(1983)363-373

An equation for estimating the diffusion coefficient of electrolytes in ion-exchange membranes
H. Miyoshi, T. Fukumoto and T. Kataoka 48(1983)43-54

Polarization studies on interpolymer ion exchange membranes
V.K. Indusekhar and N. Krishnaswamy 48(1983)267-279

Water transport studies on interpolymer ion-exchange membranes
V. K. Indusekhar and N. Krishnaswamy 52(1985)309-316

Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid
G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach 80(1991)193-209

Mass transfer analysis of pervaporation through an ion exchange membrane
P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel 90(1993)259-276

Iron removal from tap water by a cation exchanger
E. Korngold 94(1994)243-249

A new type of electrodialyzer
J. Weida 96(1994)127-132

Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place Zr(IV) hydrous oxide-PAA membranes. II. NaCl-water solutions
D. Szaniawska and H.G. Spencer 101(1995)31 -38

Elimination of nitrate from drinking water by electrochemical membrane processes
K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach 101(1995)123-131

Solute-solute separations of binary-solute solutions using formed-in-place membranes
D. Szaniawska and H.G. Spencer 105(1996)21-24

Ion exchange plants

The electrodialysis — ion exchange demonstration plant at Brindisi
V. Balice, G. Boari, M. Santori and G. Tiravanti 19(1976)447-464

Development of new type thermally regenerable ion exchange plant
K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby 22(1977)505-514

Water-softening by continuous counter-current ion-exchange single column technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 48(1983)281-292

A microprocessor-based data monitoring and control system for a continuous ion exchange plant
E. W. Randall 49(1984)169-184

Ion exchange pretreatment

Ion-exchange pretreatment for sea water desalination plants
G.K. Kunz 3(1967)363-372

Ion exchange pretreatment using desalting plant concentrate for regeneration
C. van Hoek, J.W. Kaakinen and L.A. Haugseth 19(1976)471-479

Ion-exchange pretreatment for scale prevention in desalting systems
T. Vermeulen, B.W. Tleimat and G. Klein 47(1983)149-159

Ion exchange processes

Role of ion-exchange desalination in municipal water supplies
D.E. Weiss 1(1966)107-128

Effect of the energy crisis on water desalination and waste water recycling by ion exchange
Y. Egozy and E. Korngold
40(1982)181-189

Ion exchange resin

Further studies on the weak electrolyte ion exchange resin desalination process (DESAL Process)
R. Kunin 4(1968)38-44

Calcium removal from sea water by fixed-bed ion exchange
G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen 4(1968)158-166

A new ion exchange approach to the treatment of brackish waters
B. Vassiliou and P. Sturla
5(1968)40-48

An ion-exchange process with thermal regeneration. VII. The rates of neutralization of weak electrolyte resins
B.A. Bolto and R.E. Warner
8(1970)21-34

An apparatus for desalination with ion-exchange resins
V.R. Ginde and C. Chu
10(1972)309-317

An ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demineralisation of brackish waters
H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys 12(1973)217-237

An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin
B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis 13(1973)269-285

Development of membranes and resins for piezodialysis
J. Shorr and F.B. Leitz 14(1974)11-20

Electrodialysis processes using ion-exchange resins between membranes
E. Korngold 16(1975)225-233

Demineralization by electrodialysis
K.P. Govindan and P.K. Narayanan
19(1976)229-239

An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents
B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak 25(1978)45-59

Kinetics of the neutralisation of weak acid ion-exchange resins with different solutions
W. Höll and G. Geiselhart
25(1978)217-226

Regeneration of weak base ion exchange resins
W. Höll and R. Kirch
26(1978)153-162

An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities
B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
34(1980)171-188

An ion-exchange process with thermal regeneration. XV. Treatment of sulphite deoxygenated feedwaters
N.H. Pilkington and W.G.C. Raper
42(1982)255-272

An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins
B. A. Bolto, K. H. Eppinger, M. B. Jackson and R. V. Siudak
42(1982)273-290

Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material
W. Höll and B. Kiehling
48(1983)253-266

Ion exclusion

Negative rejection of acids and separation of ions by hyperfiltration
E. Hoffer and O. Kedem
5(1968)167-172

Prediction of reverse osmosis membrane salt rejection in multi-ionic solutions from single-salt data
M. Brusilovsky and D. Hasson
71(1989)355-366

Ion permselective membranes

Preparation and laboratory evaluation of cellulose-based ion permselective membranes
A. Süszer, E. Bandel and M. Flitman
7(1969)47-50

An amphoteric ion-permselective membrane
F. de Körösy 16(1975)85-103

Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane
S. Reich, B. Gavish and S. Lifson
24(1978)295-296

Ion transport

Preferential chloride-sulfate ion transport in electrodialysis using tetra-allylammonium chloride membranes prepared by a modified method
H. Schweigart 2(1967)154-160

EMF measurements for selectivity determinations of highly selective membranes. Comparison of a flow-cell method and the membrane-strip method
J.C.T. Kwak 11(1972)61-69

Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis
L. Dresner 15(1974)109-125

Membrane potential measurements on cellulose acetate membranes
S.G. Wong and J.C.T. Kwak
15(1974)213-224

A study on the transport behavior of cations in ion exchange membrane electrodialysis
Tingchia Huang and Tentsai Wang
21(1977)327-340

Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids
R. Oláh and K. Vadasdi
67(1987)547-557

Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions
D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli 68(1988)131-148

Modeling multiion transport in hyperfiltration membranes with fixed charges
K.S. Menon and H.G. Spencer 80(1991)31-42

Comparison of transport of alkali-halides and nitrates across asymmetric cellulose acetate and polyamide, composite poly(etherurea), and cation exchange membranes
W. Pusch 83(1991)261-270

Preferential transport of nickel and cupric ions through cation exchange membrane in electrodialysis with a complex agent
Tingchia Huang and Jaukai Wang 86(1992)257-271

Ion-conducting spacers

Reduction of polarization in electrodialysis by ion-conducting spacers
O. Kedem 16(1975)105, Err. 17(1975)143

Ion conducting spacer for improved electrodialysis
O. Kedem and Y. Maoz 19(1976)465-470

Polarization in unit cells
G. Garza 24(1978)211-223

Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system
O. Kedem, I. Rubinstein and L.A. Segel 27(1978)143-156

Demineralization by electrodialysis using ampholytic ion-conducting spacers
K.P. Govindan and P.K. Narayanan 38(1981)517-527

Iron hydroxide deposition

About the mechanism of formation of iron hydroxide fouling layers on reverse osmotic membranes
J.M. Jackson and D. Landolt 12(1973)361-378

Fouling in steady and unsteady state electrodialysis
D.W. Thompson and A.-Y. Tremblay 47(1983)181-188

Effects of acceleration on particulate fouling in reverse osmosis
J.C. Eid and G.B. Andeen 47(1983)191-199

The performance of cyclic and steady-state electrodialysis separation processes in the presence of iron (II) fouling
D.W. Thompson and A.Y. Tremblay 48(1983)121-132

A contribution to fouling in hyperfiltration induced by chemical reaction
E. Staude and W. Assenmacher 49(1984)215-228

Kimura-Sourirajan model

Anion rejection in a nitrate highly rejecting reverse osmosis thin-film composite membrane
L. Panyor and C. Fabiani 104(1996)165-174

Kinetic studies

The kinetics of methyl bromide hydrate formation
J.B. Pangborn and A.J. Barduhn 8(1970)35-68

The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers
S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim 17(1975)3-16

The rate of formation of the hydrates of F-31 (CH_2ClF) and F-142b (CH_3CClF_2) in a stirred tank reactor
A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern 18(1976)59-69

Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates
L. Liberti, G. Boari and R. Passino 25(1978)123-134

Kinetics of the neutralisation of weak acid ion-exchange resins with different solutions
W. Höll and G. Geiselhart 25(1978)217-226

Precipitation equilibrium during evaporation of water containing high dissolved salts
J. S. Gill and R. G. Varsanik 60(1986)1-8

Laminar falling film

Scale deposition in a laminar falling-film system
D. Hasson and I. Perl 37(1981)279-292

Laminar flow

Control of concentration polarization in reverse osmosis desalination of water
H. Strathmann and B. Keilin 6(1969)179-201

Reverse osmosis in laminar flow through curved tubes
R.J. Nunge and L.R. Adams 13(1973)17-36

Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow
R.F. Probstein, J.S. Shen and W.F. Leung 24(1978)1-16

Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions
F. Bellucci and N. Esposito 28(1979)181-191

Particle motion in a laminar slit flow: a fundamental fouling study
F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti 47(1983)221-232

Landfill

Methane recovery from landfill gas in order to produce natural gas by means of membranes
R.A. Simonet 53(1985)289-295

Treatment of landfill gas by gas permeation — Pilot plant results and comparison to alternatives
R. Rautenbach and K. Welsch 90(1993)193-207

Solar distillation treatment of landfill leachate. A case study in Greece
K.L. Katsifarakis 94(1993)213-221

Desalination for landfill leachates containing condensed inorganic salts
T. Kawanishi, S. Matsumoto, Y. Horii and M. Masuzaki 97(1994)415-425

Treatment of three types of landfill leachate with reverse osmosis
K. Linde, A. Jönsson and R. Wimmerstedt 101(1995)21-30

Nanofiltration of salt solutions and landfille leachate
K. Linde and A.-S. Jönsson 103(1995)223-232

Latex

Development of membranes and resins for piezodialysis
J. Shorr and F.B. Leitz 14(1974)11-20

Ultrafiltration of latex wastewaters
K. Konieczny and M. Bodzek 104(1996)75-82

Treatment of paper coating colour effluents by membrane filtration
A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström 105(1996)263-276

Lead removal

Dynamic data on lead uptake from water by chabazite
M. Pansini and C. Colella 78(1990)287-295

Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream
J.P. Brouwer, M.M.C. Alkemade and G. Bierman 101(1995)211-218

Legal issues

Emerging legal issues in siting desalination facilities in California
J. Ossiff 87(1992)1-36

Developing and financing new water facilities: Alternatives for desalination and reclamation plants
N.C. Smith 87(1992)85-95

Lignosulphonate recovery

Recovery of lignosulphonate from a calcium bisulphite pulp mill by ultrafiltration
F.G. Neytzell-de Wilde 67(1987)495-505

Lime

Desalination of Rhine River water by ion exchange. Part 1. Pilot plant studies of lime slurry regeneration
S. Evans and R.M. Gomes 19(1976)433-438

Remineralization of desalinated water by limestone dissolution filter
Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa 66(1987)365-383

Limestone hardening system for Brindisi's power station: First limestone recarbonation unit installed in Italy for industrial water production
R. Zannoni, A. Bonacini, M. Musatti, I. Resini 82(1991)351-357

Membrane softening versus lime softening in Florida: A cost comparison update
R.A. Bergman 102(1995)11-24

Liquid films

Liquid film distributors for vertical tube evaporation desalination plants
M. Beccari, A.C. di Pinto and L. Spinosa 29(1979)295-310

Hydrodynamics of condensate films on fluted tube surfaces. Part I
T.G. Somer and C. Özgen 34(1980)233-247

Liquid membranes

Formation of multilayers of liquid membrane at the cellulose acetate membrane/water interface
R.C. Srivastava and S. Yadav 28(1979)291-294

The mathematical modeling of the removal of phenol with emulsified liquid membranes
Fudu Miao, Xinpei Li and Yuanqi Zhang 56(1985)355-366

Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes
Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin 62(1987)315-321

Separation techniques with supported liquid membranes
G. Schulz 68(1988)191-202

The stability of supported liquid membranes
A.M. Neplenbroek, D. Bargeman and C.A. Smolders 79(1990)303-312

Liquid pools

An experimental study of flash evaporation from liquid pools
S. Gopalakrishna, V.M. Purushothaman and N. Lior 65(1987)139-151

Loeb-type membranes

A membrane for removing endotoxins from aqueous solutions
N.A. Karamian and P.F. Waters 17(1975)329-338

Low-grade heat

Available electricity loss for low grade heat
M. Schaal 40(1982)77-85

Desalination plant using low grade geothermal heat
A. Ophir 40(1982)125-132

Use of low grade in driving small freezing units for desalination
A. F. Abdul-Fattah 61(1987)169-183

Low-pressure membranes

Thermodynamic approach to reverse osmosis and the low pressure membrane
L.F. del Castillo 19(1976)211-220

Low pressure composite membrane
R.G. Sudak and M.E. McKee 22(1977)235-242

Deformed reverse osmosis membrane and low pressure operation
J.M. Guerrero and L.F. del Castillo 26(1978)141-151

Preparation and properties of a composite charged membrane
D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn 41(1982)249-261

Comparison of two thin-film composite membranes: Low pressure FT-30 to very low pressure NF40HF
S.D.N. Freeman and T.F. Stocker 62(1987)183-191

Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis
Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang 107(1996)217-221

Low-temperature desalination

Usability of low temperature waste heat for sea water desalination
R. Saari 39(1981)147-158

The operation of sea water distillation plants in relation to materials selection
R. Heaton and T. A. Douglas
41(1982)71-80

The new generation in sea water desalination SU membrane desalination system
L. Carlsson 45(1983)221-222

The Curacao KAE-LT-MED and auxiliary steam turbine project: a model for dual purpose MSF plants replacement
A. Ophir and S. Manor 66(1987)33-42

The Ebeye desalination project — Total utilization of diesel waste heat
W.E. Toelkes 66(1987)59-68

Low-Temperature Distillation, See Distillation,

Low-temperature evaporators

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf
T.G. Temperley 33(1980)99-107

Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation
R. Rautenbach and B. Arzt
44(1983)121-128

LTMED

Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants
I. Kamal and G.V. Sims
109(1997)1-13

Luciferase

Advance in water quality monitoring and the use of firefly luciferine/luciferase/ATP bioassay
N. Malley and D.L. Henry
39(1981)521-528

Macromolecular

Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow
R.F. Probstein, J.S. Shen and W.F. Leung 24(1978)1-16

Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose
B. Hägerdal, M. López-Leiva and B. Mattiasson 35(1980)365-373

Macroporous

Brackish water salt rejection by porous hyperfiltration membranes
R.F. Probstein, A.A. Sonin and D. Yung 13(1973)303-316

Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins
Z. Matejka and J. Eliasek
42(1982)315-320

Macroreticular membranes

Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants
R.B. Hodgdon, E. Witt and S.S. Alexander 13(1973)105-127

Macrosolute-microsolute separation

Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications
B. Dutré and G. Trägårdh
95(1994)227-267

Magnesium

Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium
L.H. Shaffer, R.A. Knight and D.A. Smith 2(1967)125-129

Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation
J. Glater, K.S. Murdia and R. Dooly
14(1974)197-207

Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range
V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
25(1978)269-280

Magnesium oxide production from concentrated brines
D. Barba, V. Brandani, G. Di Giacomo and P.U. Foscolo
33(1980)241-250

Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins
Z. Matejka and J. Eliasek
42(1982)315-320

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with calcium, magnesium and ferrous ions at various temperatures
M. Iovchev 52(1985)285-293

Uptake of calcium and magnesium from the Arabian Gulf water on plastic and glass surfaces
A. M. Shams El Din and R. A. Mohammed 61(1987)245-248

Magnesium hydroxide

Alkaline scale formation in boiling sea water brines
R. Dooly and J. Glater 11(1972)1-16

The crystallization of magnesium hydroxide
Sungtsuen Liu and G.H. Nancollas
12(1973)75-84

Electrolytic scale formation in sea water distillation systems
M.K.V. Nair and B.M. Misra
25(1978)263-268

The crystallization of magnesium hydroxide, a constant composition study
C.-C. Chieng and G.H. Nancollas
42(1982)209-219

Effect of magnesium hydroxide (or hydrated MgO) formed under alkaline conditions on brackish water pretreatment for reverve osmosis
V. Mavrov, I. Dobrevsky, B. Bonev and N. Petkov 85(1992)335-344

Magnesium sulfate

Vapor pressures of binary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi
1(1966)139-148

Vapor pressures of ternary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi
1(1966)149-155

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi
2(1967)271-278

Magnetic field

Laboratory research on desalination in a magnetic field using permselective membranes
W. Schafer 3(1967)174-182

The effect of a magnetic field on steam purity
M. Yovchev 11(1972)379-384

Magnetic particle technology

Magnetic particle technology: Desalination and water reuse applications
B.A. Bolto 106(1996)137-143

Magnetic treatment

Effect of magnetic treatment on Gulf seawater
H. Al-Qahtani 107(1996)75-81

Maintenance

Improvement of operation and availability of MSF plants
H. Krause and A. Hassan
107(1996)59-74

Maintenance activity for partial intervention of retubing on four distillers multi-flash double-deck (capacity 3 mgd for each unit) of Abu Dhabi power station after 18 years of operation activity
V. Franchini 108(1996)295-313

Maleic acid-containing polymer additive

Laboratory applications testing of desalination antiscalants
M. H. Auerbach and M. S. Carruthers
31(1979)279-288

Chemistry of alkaline scale inhibition in seawater desalination by FLOCON Antiscalant 247
S. W. Walinsky and B. J. Morton
31(1979)289-298

Management philosophy

Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia
P. Wong, P. Docker, E. Gabbrielli and P. Wade 98(1994)225-238

Management system

Total quality management and desalination plants: A practical application for result-based management methods
H. Griepentrog 93(1993)373-385

DPMS — Desalination Plant Management System
T. Altmann 107(1996) 53-57

Manganese carbonate

Contact stabilization of potential calcium carbonate scale by rhodochrosite
K.S. Johnson 48(1983)17-23

Marine pollution

Second international congress on marine pollution and waste discharge into the sea
E. Rolle 15(1974)141-142

Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants
T. Nakahara, H. Sasaki, Y. Kanda and H. Togano 23(1977)151-160

Pollution problems in a distillation process
T. Goto and T. Hakuta
23(1977)245-253

Influence of desalination effluents on marine ecosystems
H. Winters, I. R. Isquith and R. Bakish
30(1979)403-410

Market analysis

Marketing new technology for solving water treatment problems: One company's experience
H.E. Green 23(1977)321-330

An assessment of the market potential for small solar powered desalination plants
J.J. Turnage and A.A. Husseiny
39(1981)43-52

A projected world market for seawater desalination equipment
F. E. Stone and A. N. Rogers
55(1985)529-558

Mass transfer

An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh
A. Solan, Y. Winograd and U. Katz
9(1971)89-95

Reverse osmosis in a curved tubular membrane duct
S. Srinivasan and C. Tien
9(1971)127-139, Err. 12(1973)277

Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface
D. Pnueli and G. Iddan
9(1971)285-294

Correction to "Reverse osmosis in a curved tubular membrane duct"
C. Tien and S. Srinivasan
12(1973)277-279, Err. 9(1971)127

Mass transfer in narrow channels in the presence of turbulence promoters
Y. Winograd, A. Solan and M. Toren
13(1973)171-186, Err. 13(1973)395

Analysis of reverse osmotic characteristics of American-standard type tubular module
H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka 16(1975)235-244

Fouling in boiling liquid *(in German)*
K.-J. Schmid-Schönbein
21(1977)99-118

A system for the experimental study of flash evaporation
N. Lior and R. Greif 31(1979)87-99

Mass transfer in the U-turn of an electrodialyzer
In Ho Kim, In Soek Kang and Ho Nam Chang 33(1980)139-161

Some basic observations on heat transfer and evaporation in the horizontal flash evaporator
N. Lior and R. Greif
33(1980)269-286

A consideration on flow distribution in an ion exchange compartment with spacer
H. Miyoshi, T. Fukumoto and T. Kataoka 42(1982)47-55

On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types
S. I. Golub, V. V. Iljushchenko, S. V. Grigorenko, U. V. Kartowsky and N. K. Tokmantsev 44(1983)137-142

Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer
O. Kuroda, S. Takahashi and M. Nomura 46(1983)225-232

Effect of characterizations of spacer in electrodialysis cells on mass transfer
X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li 46(1983)243-252

Mass transfer, fluid flow and membrane properties in flat and corrugated plate hyperfiltration modules
I. G. Rácz, J. Groot Wassink and R. Klaassen 60(1986)213-222

Mass transfer and the fluidized bed intensification of reverse osmosis
Wang Xuesong 62(1987)211-220

Mass transfer and pressure loss in spiral wound modules
G. Schock and A. Miquel 64(1987)339-352

An update on the mass transfer of counterflow, packed deaerators containing pall-ring packing
T.J. Rabas, S. Inoue and A. Shimizu 66(1987)91-107

Gas separation and pervaporation: Membrane and module development
H. Strathmann, C.-M. Bell and J. Kerres 77(1990)259-278

Separation of dichloroethane-trichloroethylene mixtures by means of a membrane pervaporation process
Jin Sheng 80(1991)85-95

The influence of separators on hydrodynamics and mass transfer in narrow cells: Flow visualisation
P. Feron and G.S. Solt 84(1991)137-152

Mass transfer limitations in a membrane module
N. Datta and B.K. Guha 89(1993)343-358

Mass transfer analysis of pervaporation through an ion exchange membrane
P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel 90(1993)259-276

Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons
C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele 95(1994)91-113

Study of an analytical model for hollow fiber reverse osmosis module systems
M. Sekino 100(1995)85-97

Prediction of the behavior of long electrodialysis desalination channels through testing short channels
V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko 107(1996)245-250

Estimation of mass transfer coefficient using a combined nonlinear membrane transport and film theory model
Z.V.P. Murthy and S.K. Gupta 109(1997)39-49

Mass transport

Mass transport through cellulose acetate membranes — A new concept
N. Zelingher 27(1978)189-196

Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part I: Theoretical model development
J.M. Dickson, J. Spencer and M.L. Costa 89(1992)63-88

Mass transfer analysis of pervaporation through an ion exchange membrane
P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel 90(1993)259-276

Material selection

The use of stainless steels and related alloys in reverse osmosis desalination plants
J. W. Oldfield and B. Todd 55(1985)261-280

Economic material selection for reverse osmosis desalination plants
J.W. Oldfield and R.M. Kain 84(1991)227-250

Material selection for the high pressure section of seawater RO plants
A. Abu-Safiah 84(1991)279-308

Selection of materials for Taweelah "B" MSF desalination plant project (6x10-12.7 migd)
A. Al-Radif, R. Borsani and H. Sultan 97(1994)3-16

Materials

Inorganic ion-exchange membranes and their application to electrodialysis
K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman 1(1966)231-246

Stress corrosion of austenitic stainless steels in chloride environments *(in French)*
S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras 3(1967)118-124

Progress on the design of multiflash evaporators
J.M. Stewart and W.R. Querns 3(1967)139-146

Durability of cement and concrete in sea water
M. Ben-Yair 3(1967)147-154

Demineralization with ion-exchange materials
B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy 3(1967)183-194

Pitting of titanium alloys in saline waters
F.A. Posey and E.G. Bohlmann 3(1967)269-279

Vinyl-substituted silica gel membranes *(in German)*
F. Runge 3(1967)304-307

Some comments on "The corrosion of materials in desalination plants"
L.H. Bennett and L.J. Swartzendruber 4(1968)389-390, Err. 4(1968)391-392

Corrosion of mild steel under operating conditions of a distillation desalting plant
E.V. Konstantinova and L.S. Semenova 5(1968)90-94

Summary report on survey of materials behavior in multistage flash distillation plants
E.H. Newton and J.D. Birkett
6(1969)229-237

Titanium for sea water distillation tubing
N.G. Feige and R.L. Kane
7(1969)17-22

Preparation and laboratory evaluation of cellulose-based ion permselective membranes
A. Süszer, E. Bandel and M. Flitman
7(1969)47-50

Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes
R.L. Riley, C.R. Lyons and U. Merten
8(1970)177-193

Polymer concrete: A potential construction material for desalination plants. Part I
J.E. Backstrom and J.T. Dikeou
9(1971)97-125

The corrosion of aluminium alloys in hot brine
J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence 9(1971)245-258

Use of ultrasonics in laboratory development tests of cupro-nickel alloys for desalination
L.J. Swartzendruber and L.H. Bennett
9(1971)387-389

Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes
P. Hoornaert, C. Lefebvre and A. Van Haute 11(1972)315-327

Scale formation as related to evaporator surface conditions
R.H. Rankin and W.L. Adamson
13(1973)63-87, Err. 13(1973)63

Preparation and properties of membranes obtained by radiation induced grafting of 4-vinylpyridine onto polytetrafluoroethylene films
G. Canepa, S. Munari, C. Rossi and F. Vigo 13(1973)159-170

Recent advances in reverse osmosis membranes
H.K. Lonsdale 13(1973)317-332, Err. 14(1974)248, 14(1974)394

New polymer materials for reverse osmosis membranes
L. Credali, A. Chiolle and P. Parrini
14(1974)137-150

Piezodialysis: Styrene-butadiene copolymer membranes
T. Yamabe, K. Umezawa, S. Yoshida and N. Takai 15(1974)127-134

An amphoteric ion-permselective membrane
F. de Körösy 16(1975)85-103

Experimental study of film condensation on horizontal grooved tubes
A. F. Mills, G. L. Hubbard, R. K. James and C. Tan 16(1975)121-133

Composite reverse osmosis membranes prepared from polyvinyl alcohol and toluene diisocyanate *(in French)*
R. Dick and L. Nicolas
17(1975)239-255

Experience with a vertical tube evaporator with a fiberglass shell *(in Spanish)*
E. Latapí Fox 19(1976)25-34

Utilization of cement concrete as an evaporator shell material
Y. Nojiri and K. Fujii 19(1976)45-54

Study of polyurethane foam for tubular membrane support *(in Spanish)*
J.A. Septién and J.F. del Valle
19(1976)405-409

New polymeric materials for reverse osmosis membranes
R. Endon, T. Tanaka, M. Kurihara and K. Ikeda 21(1977)35-44

Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics
K.R. Fröhner 21(1977)147-164

Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities
Y. Tazawa, Y. Nojiri and K. Fujii
22(1977)111-120

The evaluation and selection of polymeric materials for reverse osmosis membranes
J.K. Beasley 22(1977)181-189

Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients
W. Pusch and R. Riley
22(1977)191-203

On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes
L. Broens, D.M. Koenhen and C.A. Smolders 22(1977)205-219

Development of PBIL low pressure brackish-water reverse osmosis membranes
R.L. Goldsmith, B A. Wechsler, S. Hara, K. Mori and Y. Taketani
22(1977)311-333

Experience with desalination plants containing titanium heat exchange tubing
J.A.S. Green, B.W. Gamson and W.F. Westerbaan 22(1977)359-368

Corrosion under heat flux encountered in desalination plant
S. Kido and T. Shinohara
22(1977)369-378

Corrosion problems of copper alloys in desalination plants
L. Giuliani and R. Cigna
22(1977)379-384

Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants
T. Nakahara, H. Sasaki, Y. Kanda and H. Togano 23(1977)151-160

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
23(1977)331-355

Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films
A. Chapiro and A.-M. Jendrychowska-Bonamour
24(1978)83-91

Two component polymer membranes
M. Pegoraro and A. Penati
26(1978)63-83

Asymmetric polyimide membranes for filtration of non-aqueous solutions
H. Strathmann 26(1978)85-91

Five years of operating experience of large scale distillation test plant made of carbon steel
H. Tabata and R. Yokoyama
27(1978)3-8

Corrosion of welds in seawater
T. Hodgkiess, N. Eid and W.T. Hanbury 27(1978)129-136

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

Corrosion measurement and assessment in acid dosed desalination plants
K. Harding and D.A. Bridle
28(1979)89-108

Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics
M. Mitrovic and L. Knezic
28(1979)147-156

Concrete structures for desalination plants (in French)
A. Bernard and R. Lacroix
29(1979)331-336

Features of desalination plants in semi-arid areas
A.H. Nasrat and T.V. Balakrishnan
30(1979)187-202

Combined Yanbu and Medina power and desalination plant
I.M.R. Jamjoom and G. Costes
30(1979)283-300

Multi-effect desalination plant using a plastic heat transfer surface *(in French)*
F. Lauro 31(1979)221-231

Material specification, availability and life of desalination equipment in Arabia and the Gulf
T.G. Temperley 31(1979)353

MSF evaporator fabricated from reinforced thermosetting materials
O. J. Morin and R. A. Johnson
31(1979)355-363

Corrosion considerations in selecting metals for flash chambers
J. W. Oldfield and B. Todd
31(1979)365-383

Concrete structure for desalination plants *(in French)*
A. Bernard, R. Lacroix and M. Izabel
31(1979)385

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube
T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo 31(1979)389-398

Corrosion of welded samples in seawater
T. Hodgkiess, W. T. Hanbury, M. Arndt and N. Eid 31(1979)399-410

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf
T.G. Temperley 33(1980)99-107

Heat transfer in a rotating disk evaporator
C. S. Wang, R. Greif and A. D. K. Laird 33(1980)259-267

Solvent resistant membranes from poly(*p* -phenylene-terephthalamide)
P. Zschocke and H. Strathmann
34(1980)69-75

An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities
B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
34(1980)171-188

Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf (Letter to the Editor)
K. Hill 34(1980)325-326

Synthetic membranes: State of the art
W. Pusch and A. Walch 35(1980)5-20

Development of new membranes
H. Strathmann 35(1980)39-58

Centrifugal pumps for desalination
F. F. Antunes, R. E. Cornman and R. J. Hartkopf 38(1981)109-122

In situ corrosion study of stainless steels in an MSF desalting plant
S. Nordin 38(1981)151-

Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand
N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio
38(1981)223-231

Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater
T. Hodgkiess and A. Asimakopoulos
38(1981)247-256

The corrosion behaviour of a number of materials exposed to bromine-containing environments
T. Hodgkiess, N.K. Ng and P. Argyropoulos 55(1985)229-246

Optimization of high pressure piping in reverse osmosis plants
S. Nordin, B. Ericsson and B. Wallen
55(1985)247-259

Material selection for the high pressure section of seawater RO plants
A. Abu-Safiah 84(1991)279-308

New and developed material and chemicals in desalination technology
M. Morsi Abou El Ela
93(1993)529-536

Materials performance

Performance of materials used in seawater reverse osmosis plants
J. Carew, M. Abdel-Jawad, A. Julka and Y. Al-Wazzan 74(1989)85-112

Performance of materials used for the venting system in WED's desalination plants (MSF)
E.A. Al-Sum, A. Al-Radif and S. Aziz
93(1993)517-527

Materials performance and failure evaluation in SWCC MSF plants
A.U. Malik, P.C. Mayan Kutty, I.N. Andijani and S.A. Al-Fozan
97(1994)171-187

Materials selection

Development and application of a roof type solar still
K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
73(1989)111-118

Current status of materials selection for MSF distillation plants
T. Hodgkiess 93(1993)445-460

Mathematical model

An analytical method for design of electrodialysis stacks operated at high concentrations
D. Barba, F. Evangelista, G. Jonsson and L. Marrelli 71(1989)137-149

Modeling of calcium sulphate fouling of reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 72(1989)293-318

An approximate analytical solution for the performance of reverse osmosis plants
A.E.S. Al-Zahrani, M.A. Soliman and I.S. Al Mutaz 75(1989)15-24

Predictability of membrane performance of reverse osmosis systems for seawater desalination
B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad 75(1989)55-69

Design method of reverse osmosis units used in desalination
M.S. Hameed 75(1989)85-96

Harvest of microbial suspensions by microfiltration
B. Reismeier, K.H. Kroner and M.-R. Kula 77(1990)219-233

Module and process design for vapor permeation
R. Rautenbach and U. Meyer-Blumenroth 77(1990)295-322

Evaluation of optimum thickness of bottom insulation for a conventional solar still
N.K. Dhiman 78(1990)201-208

Crystallization of calcium sulfate on reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 79(1990)47-63

Simulation and design of MSF desalination processes
O.A. Hamed and S. Aly 80(1991)1-14

Modeling multiion transport in hyperfiltration membranes with fixed charges
K.S. Menon and H.G. Spencer 80(1991)31-42

Wavepowered desalination: Experimental and mathematical modelling
A.J. Crerar and C.L. Pritchard 81(1991)391-398

Solar still performance
A.Y. Maalej 82(1991)207-219

Design and parameter estimation of reverse osmosis systems
S.K. Gupta, S. Gupta and A. Narayana 86(1992)77-89

Numerical simulation and optimisation of spiral-wound modules
M. Ben Boudinar, W.T. Hanbury and S. Avlonitis 86(1992)273-290

Thermal assessment of a multiple effect boiling (MEB) desalination system
O.A. Hamed 86(1992)325-339

Characterisation of nanofiltration membranes for the separation of aqueous dye-salt solutions
P. Schirg and F. Widmer 89(1992)89-107

Desalination with a reversible flashing process
N. Ninic, M. Novakovic, S. Dimitrijevic and S. Savovic 89(1993)263-273

Mass transfer limitations in a membrane module
N. Datta and B.K. Guha 89(1993)343-358

Fractionation of aqueous organic mixtures by reverse osmosis
R. Rautenbach and A. Gröschl 90(1993)93-106

Determination of optimized membrane area from long-term flux decline data
M.S. Suwandi 90(1993)379-388

Short-term operational planning in WED. Part 1: Structure of the cogeneration system
D. Herrmann, A. El-Nashar and A. Aidrous 92(1993)171-183

Short-term operational planning in WED. Part 2: Load dispatch and unit commitment
D. Herrmann, A. El-Nashar and A. Aidrous 92(1993)185-209

Mathematical modelling and expert systems integration for optimum control strategy of MSF desalination plants
B. Fumagalli and E. Ghiazza 92(1993)281-293

An assessment of an ejectocompression desalination process
O.A. Hamed and K.A. Ahmed 96(1994)103-111

Mathematical modelling and expert system integration for optimum control strategy of MSF desalination plants
B. Fumagalli and E. Ghiazza 97(1994)547-554

Mathematical model of nanofiltration systems
W.G.J. van der Meer, C.W. Aeijelts Averink and J.C. van Dijk 105(1996)25-31

A general tool for a better use of design or verification of mathematical models
E. Ghiazza and F. Giovani 105(1996)51-56

Modeling multistage flash desalination plants
M. Rosso, A. Beltramini, M. Mazzotti and M. Morbidelli 108(1996)365-374

Measurement techniques

New insights into the structure of microporous membranes obtained using a new pore size evaluation method
M.G. Katz and G. Baruch 58(1986)199-211

The technical and economic implications of measurement and control errors in water desalination
L. Awerbuch and A.N. Rogers 59(1986)1-17

Experimental methods for the determination of non-transport properties of membranes
G.P. Simon and C. Calman 59(1986)61-103

Measurement techniques of transport through membranes
W. Pusch 59(1986)105-198

Measurements

Measurement of small temperature and pressure differences
N. Lior 59(1986)19-60

Measurements and control in electrodialysis
F.B. Leitz 59(1986)381-401

Measurements and control in ion exchange installations
F.X. McGarvey and S.A. Fischer 59(1986)403-424

Applications of neutron back-diffusion technique for wall thickness and scale measurements at desalination or chemical plants
S. Abdul-Majid 94(1993)101-107

Megnetohydrodynamics

Laboratory studies on magnetic water treatment and their relationship to a possible mechanism for scale reduction
K.W. Busch and M.A. Busch 109(1997)131148

Melassigenic ions

Reduction of melassigenic ions in cane sugar juice by electrodialysis
M.O. El-Khattabi, M.R.A. Hafidi and A. El-Midaoui 107(1996)149-157

Membrane applications

The application of membranes in environmental protection
Liu Ting-hui 62(1987)149-164

Membranes, membrane processes, and their applications: Needs, unsolved problems, and challenges of the 1990's
A.S. Michaels 77(1990)5-34

Desalination and industrial waste water treatment with the ROCHEM Disc Tube Module (DT)
T.A. Peters 83(1991)159-172

The application of inorganic membranes to electrodialysis processes
D.A. White, R. Labayru, H.R. Obermoller and X. Deryde 84(1991)177-188

The industrial application of ultrafiltration membranes
Bing-hua Zhu and Peng Cheng 90(1993)119-126

Membrane applications in raw water treatment with and without reverse osmosis desalination
B. Ericsson and B. Hallmans 98(1994)3-16

Membrane characterization

An analysis of reverse osmotic characteristics of B-9 hollow fiber module
H. Ohya 21(1977)257-274

Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics
M. Mitrovic and L. Knezic 28(1979)147-156

Characterization methods for ultrafiltration membranes
G. Trägårdh 53(1985)25-35

A method for characterization of ultrafiltration membranes
G. Trägårdh and K. Ölund 58(1986)187-198

Multidimensional response surfaces in the characterization, comparison and optimization of membranes
P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman 61(1987)103-123

Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends
K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders 61(1987)211-235

Prediction of membrane properties using phase diagrams in the polymer-solvent-precipitant system
Hu Jiajun 62(1987)49-53

Characteristics of PFI composite reverse osmosis membrane
Lu Xueren and Gao Congjie 62(1987)203-210

Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes
Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie 62(1987)353-361

Performance evaluation of three different seawater RO membranes at DROP in Kuwait
A. L. A. Malik, K. M. Mousa, N. G. Younan and B. J. R. Rao 63(1987)163-192

Verification of design criteria, experience and results obtained with the plate module line at DROP, Kuwait
W. Nieszen 63(1987)247-262

Aromatic/cycloaliphatic polyamide membrane
S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown 64(1987)259-269

Chlorine resistant polysulfone reverse osmosis modules
A. E. Allegrezza, Jr., B. S. Parekh, P. L. Parise, E. J. Swiniarski and J. L. White 64(1987)285 -304

Asymmetric membrane formation. Is the evaporation step necessary?
D. Sambrailo and B. Kunst 64(1987)321-328

Composite membranes of aromatic polyamide for desalination: Membrane preparation and characterization
J. Lora and E. Soriano 64(1987)375-386

New thin-film composite low pressure reverse osmosis membranes and spiral wound modules
I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama 64(1987)387-401

Low-pressure reverse osmosis drying membrane reinforced by polyester web
Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing 64(1987)403-410

Reverse osmosis TFC magnum elements for chlorinated/dechlorinated feedwater processing
W.G. Light, H.C. Chu and C.N. Tran 64(1987)411-421

Characterization of clean and fouled ultrafiltration membranes
J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt 68(1988)93-108

New composite charged reverse osmosis membrane
K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto 68(1988)109-119

High performance ultrafiltration membranes cast from LiCl doped solutions
A. Bottino, G. Capannelli, S. Munari and A. Turturro 68(1988)167-177

Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation
M.N. de Pinho 68(1988)211-221

Characterization of a new reverse osmosis composite membrane for industrial application
A. J. Naaktgeboren, G. J. Snijders and J. Gons 68(1988)223-242

Industrial applications of the aqualyzer electrodialysis process using fine thickness cells
A. Bonnin and F. Linnhoff 68(1988)265-277

Development of bipolar membranes
B. Bauer, F.J. Gerner and H. Strathmann 68(1988)279-292

The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid)
A.J. van Reenen, N.A. Dowler and R.D. Sanderson 69(1988)1-8

Role of the membrane surface in concentration polarization at ion-exchange membrane
I. Rubinstein, E. Staude and O. Kedem 69(1988)101-114

Investigation of performance of TMM-FA composite membrane for reverse osmosis
Wang Wentong 69(1988)235-239

High-temperature reverse osmosis membrane element
H.C. Chu, J.S. Campbell and W.G. Light 70(1988)65-76

Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes; low pressure formation,, high pressure evaluation
F. G. Neytzell-de Wilde, C. A. Buckley and M. P. R. Cawdron 70(1988)121-136

Composite melamine-formaldehyde-furfuralcohol copolymerization membrane for reverse osmosis
Wang Wentong 70(1988)137-142

Characteristics and performance of new types of ultrafiltration membranes with chemically modified surfaces
F. F. Stengaard 70(1988)207-224

Performance of fractal membranes in the ultrafiltration of skim natural rubber latex
M. S. Suwandi and M. S. Lefebvre 70(1988)225-228

Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes
S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon 70(1988)265-275

Ultrafiltration membranes obtained by poly(acrylonitrile) grafted onto poly(vinylchloride)
F. Vigo, C. Uliana and G. Dondero 70(1988)277-292

Preparation and characterization of polysulfone ultrafiltration membranes for concentrating waste tuna broth
E. J. Del Rosario and F. D. Duldulao 70(1988)293-298

Characterization of ultrafiltration polymeric membranes
P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari 78(1990)235-255

Studies of the UF-25-PAN membrane characteristics in the complexing-UF process of Cu, Ni, and Co with polyvinylalcohol
V. Mavrov, I. Petrova, K. Davarsky and S. Manolov 83(1991)289-300

Characterization of membrane distillation membranes prepared by phase inversion
J.M. Ortiz de Zárate, L. Peña and J.I. Mengual 100(1995)139-148

Membrane cleaning

Pretreatment and cleaning of hyperfiltration (reverse osmosis) membranes in municipal wastewater renovation
G. Belfort 21(1977)285-300

Cleaning and regeneration of membranes
Ren Deqian 62(1987)363-371

Membrane fouling and cleaning at DROP
S. Ebrahim and A. Malik 66(1987)201-221

Parametric evaluation of flux decline during ultrafiltration of protein solutions
A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik 68(1988)35-44

Scale formation prognosis and cleaning procedure schedules in reverse osmosis systems operation
A.G. Pervov 83(1991)77-118

Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations
Chen Jiayan, Wang Liancheng and Zhu Zhengyu 86(1992)301-315

Cleaning and regeneration of membranes in desalination and wastewater applications: State-of-the-art
S. Ebrahim 96(1994)225-238

Membrane degradation

Yuma Desalting Plant. Membrane degradation during test operations
A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody 88(1992)33-49

Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A.
S.H. Suemoto, L.A. Haugseth and C.D. Moody 96(1994)43-50

Performance of reverse osmosis membrane in Jeddah Phase I plant
Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama 96(1994)215-224

Membrane desalination

Significant developments in membrane desalination — 1979
M.E. Mattson 28(1979)207-223

A preliminary plan for membrane desalination in China
Gao Conjie 69(1988)61-62

Membrane desalination and water re-use technologies improvement by thermodynamics of accumulation processes regulatories
M.R. Mehandjiev 83(1991)245-246

Reducing the amount of microorganisms in feed water for membrane demineralization
S. Pavlova and S. Prodanova 91(1993)115-119

Membrane development

Development of membranes and resins for piezodialysis
J. Shorr and F.B. Leitz 14(1974)11-20

A morphological approach to desalination in hyperfiltration
R.D. Sanderson and H.S. Pienaar 25(1978)281-301

Membrane distillation

Membrane distillation: an experimental study
E. Drioli and Yonglie Wu
53(1985)339-346

Membrane distillation — A theoretical study of evaporation through microporous membranes
A.-S. Jönsson, R. Wimmerstedt and A.-C. Harrysson 56(1985)237-249

Membrane distillation — An assessment
W.T. Hanbury and T. Hodgkiess
56(1985)287-297

Design and field tests of a new membrane distillation desalination process
S.-I. Andersson, N. Kjellander and B. Rodesjö 56(1985)345-354

Design and field tests of a membrane distillation system for seawater desalination
N. Kjellander 61(1987)237-244

Membrane development for seawater desalination
E. Drioli 63(1987)57-69

The efficient use of energy in membrane distillation
A.G. Fane, R.W. Schofield and C.J.D. Fell 64(1987)231-243

A desalination process through sweeping gas membrane distillation
L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
64(1987)245-257

Experiments on seawater desalination by membrane distillation
S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
69(1988)19-26

Terminology for membrane distillation
K. Smolders and A.C.M. Franken
72(1989)249-262

Factors affecting flux in membrane distillation
R.W. Schofield, A.G. Fane, C.J.D. Fell and R. Macoun 77(1990)279-294

Experiments on sea water desalination by membrane distillation
K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya 78(1990)177-185

Mass and heat transfer mechanisms in the osmotic distillation process
Jin Sheng, R.A. Johnson and M.S. Lefebvre 80(1991)113-121

An experimental study on membrane distillation-crystallization for treating waste water in taurine production
Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu
80(1991)235-242

Desalination by solar heated membrane distillation
P.A. Hogan, Sudjito, A.G. Fane and G.L. Morrison 81(1991)81-90

Role of heat and mass transfer in membrane distillation process
S. Bandini, C. Gostoli and G.C. Sarti
81(1991)91-106

Membrane distillation with fluoro-carbon membranes
K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
81(1991)107-115

Membrane distillation and wastewater treatment
V. Calabrò, E. Drioli and F. Matera
83(1991)209-224

Modeling and calculation of temperature-concentration polarisation in the membrane distillation process (MD)
S.P. Agashichev and A.V. Sivakov
93(1993)245-258

Theoretical and experimental study in membrane distillation
F.A. Banat and J. Simandl
95(1994)39-52

Preparation and properties of flat-sheet membranes from poly(vinylidene fluoride) for membrane distillation
M. Tomaszewska 104(1996)1-11

Water production from brines by membrane distillation
M.P. Godino, L. Peña, C. Rincón and J.I. Mengual 108(1996)91-97

Modeling temperature polarization phenomena for longitudinal shell-side flow in membrane distillation process
S.P. Agashichev and D.V. Falalejev
108(1996)99-103

Membrane filtration

Mass transfer, fluid flow and membrane properties in flat and corrugated plate hyperfiltration modules
I. G. Rácz, J. Groot Wassink and R. Klaassen 60(1986)213-222

Membrane filtration as a tool in biotechnical down-stream processing
O.J. Olsen 62(1987)329-339

Membrane technology as a tool to prevent dangers to human health by water-reuse
R.F. Madsen 67(1987)381-393

Substitution of the final clarifier by membrane filtration within the activated sludge process with increased pressure. Initial findings
K. Krauth and K.F. Staab
68(1988)179-189

Membrane filtration: A realistic option in the field of water supply?
J.C. van Dijk, B.R. Munneke, B. Kramer and J.W. Wouters
81(1991)229-247

Membrane filtration as a pre-treatment method
B. Ericsson and B. Hallmans
82(1991)249-266

Examination of processes for multiple contaminant removal from groundwater
C.J. Martin, E.O. Kartinen, Jr. and J. Condon 102(1995)35-45

A pilot study on groundwater natural organics removal by low-pressure membranes
P.Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg 102(1995)47-56

The use of membrane filtration in conjunction with coagulation processes for improved NOM removal
J.C. Vickers, M.A. Thompson and U.G. Kelkar 102(1995)57-61

Design, permitting and construction of a membrane treatment facility: The New Rochelle (NY) experience
E.D. Schwartz and L.L. Murphy
102(1995)63-75

Usefulness of networking in membrane plant design and operation
J.E. Burke, M. Mickley, J. Truesdall and R.L. Hamilton 102(1995)77-80

Membrane filtration and reverse osmosis purification of sewage: Secondary effluent for re-use at Eraring Power Station
M. Masson and G. Deans
106(1996)11-15

Humic acid as a fouling agent in filtration
M. Nyström, K. Ruohomäki and L. Kaipia 106(1996)79-87

Performance of membrane filtration system used for water treatment
T. Oe, H. Koide, H. Hirokawa and K. Okukawa 106(1996)107-113

Reclamation and reuse of process water from reactive dyeing of cotton
H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen
106(1996)195-203

Treatment of surface water rich in humus — Membrane filtration vs. conventional treatment
B. Ericsson and G. Trägårdh
108(1996)117-128

Halophyte irrigation: An overlooked strategy for management of membrane filtration concentrate
J.J. Riley, K.M. Fitzsimmons and E.P. Glen 110(1997)197-211

Membrane formation

Sea water desalination using glass hollow fibre membranes
S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
14(1974)209-216

Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions
M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie 21(1977)165-181

The formation mechanism of phase inversion membranes
H. Strathmann and K. Kock
21(1977)241-255

Analysis of the structure-determining process of phase inversion membranes
K. Kimmerlie and H. Strathmann
79(1990)283-302

New one-step process for preparation of microporous composite polysulfone/polyurethane hollow-fiber membranes
T.D. Nguyen and B.A. Solomon
90(1993)3-13

Membrane fouling

Pretreatment and cleaning of hyperfiltration (reverse osmosis) membranes in municipal wastewater renovation
G. Belfort 21(1977)285-300

Artificial particulate fouling of hyperfiltration membranes. II. Analysis and protection from fouling
G. Belfort and B. Marx 28(1979)13-30

Analysis of laminar flow precipitation fouling on reverse osmosis membranes
J. Gilron and D. Hasson 60(1986)9-24

Avoiding iron fouling in reverse osmosis desalination plants
L.E. Applegate and C.T. Sackinger
61(1987)39-48

A 600-day experiment with polyphosphate as anti-scale agent in MSF distillers
A.M. Shams El Din 61(1987)89-101

Some observations on the considerable variability of silt density index results due to equipment, filter and operator variables
N. R. G. Walton 61(1987)201-210

Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods
A. C. Molseed, J. R. Hunt and M. W. Cowin 61(1987)249-262

A review of fouling and fouling control in ultrafiltration
A. G. Fane and C. J. D. Fell
62(1987)117-136

Pretreatment system in reverse osmosis plants
T. K. Osta and L. M. Bakheet, Sr.
63(1987)71-80

Pre- and post-treatment at the RO plant at RA's Abu Jarjur, Bahrain
M. Al-Arrayedhy 63(1987)81-94

Pretreatment of surface seawater feed at DROP
S. Ebrahim and A. Malik
63(1987)95-107

The effect of pH on the nanofiltration of the carbonate system in solution
A.E. Simpson, C.A. Kerr and C.A. Buckley 64(1987)305 -319

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

Membrane fouling and cleaning at DROP
S. Ebrahim and A. Malik
66(1987)201-221

Trace metal fouling and cleaning of seawater RO membranes
G. Peplow and F. Vernon
66(1987)271-284

Control of organic fouling at two seawater reverse osmosis plants
H. Winters 66(1987)319-325

An investigation of the modified fouling index as a test for plugging potential of pretreated seawater
D. R. van der Vaart and E. P. Stahel
68(1988)45-56

Characterization of clean and fouled ultrafiltration membranes
J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
68(1988)93-108

Microfiltration of protein solutions: Effect of fouling on rejection
P. Heinemann, J.A. Howell and R.A. Bryan 68(1988)243-250

Desalination of non-chlorinated surface seawater using TFC^{R} membrane elements
W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham
70(1988)47-64

Biofouling on membranes — A microbiological approach
H.-C. Flemming and G. Schaule
70(1988)95-119

Optimization of fluid dynamics for maximum fouling prevention
R.F. Madsen 70(1988)177-189

The performance of ultrafiltration membranes pretreated by polymers
K.J. Kim, A.G. Fane and C.J.D. Fell
70(1988)229-249

Fouling prediction in reverse osmosis processes
M. Barger and R.P. Carnahan 83(1991)3-33

Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment
I. Baudin, M. Millequant, A. Ricard and R. Audebert 86(1992)237-255

New strategies for economic optimal membrane fouling control based on dynamic optimization
A.J.B. Van Boxtel and Z.E.H. Otten 90(1993)363-377

Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A.
S.H. Suemoto, L.A. Haugseth and C.D. Moody 96(1994)43-50

Identification of scale deposits through membrane autopsy
F.H. Butt, F. Rahman and U. Baduruthamal 101(1995)219-230

Fouling of RO membranes by phthalate esters contamination
D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob 105(1996)13-20

Treatment of natural water by membranes
A.G. Pervov, Y.V. Reztsov, S.B. Milovanov and V.S. Koptev 105(1996)33-39

Membrane autopsy — A case study
L.Y. Dudley and E.G. Darton 105(1996)135-141

Study on fouling materials in the membrane treatment process for potable water
Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa 106(1996)71-77

Membrane fouling decrease by microfiltration with ozone scrubbing
S. Takizawa, K. Fujita and K.H. Soo 106(1996)423-426

Pretreatment plant design - Key to a successful reverse osmosis desalination plant
A.A. Alawadhi 110(1997)1-10

Pretreatment procedures to control biogrowth and scale formation in membrane systems
L.Y. Dudley and E.G. Darton 110(1997)11-20

Membrane mist separator

New water distillation system incorporating a membrane mist separator
M. Tamura 80(1991)105-112

Membrane module

Optimisation of membrane module design for brackish water desalination
D.E. Wiley, C.J.D. Fell and A.G. Fane 52(1985)249-265

Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures
M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya 80(1991)139-158

Membrane morphology

Membrane morphology and transport properties
S. Munari, A. Bottino, G. Capannelli and P. Moretti 53(1985)11-23

Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes
Y. Wang, W.Y. Lau and S. Sourirajan 95(1994)155-169

Membrane performance

Sea water desalination using glass hollow fibre membranes
S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor 14(1974)209-216

Anionic membranes of low permselectivity in pilot plant operation
E. Korngold 14(1974)359-367

Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions
M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie 21(1977)165-181

Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes
T. Uragami, K. Maekawa and M. Sugihara 27(1978)9-20

Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis
J.L. Halary, C. Noël and L. Monnerie 27(1978)197-213

Artificial particulate fouling of hyperfiltration membranes. II. Analysis and protection from fouling
G. Belfort and B. Marx 28(1979)13-30

Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics
M. Mitrovic and L. Knezic 28(1979)147-156

Five year's experience with reverse osmosis systems using Du Pont "Permasep" permeators
C.P. Shields 28(1979)157-179

Effect of heat treating and dry conditions on the performance of cellulose acetate reverse osmosis membrane
Y. Liu, K. Lang, Y. Chen and B. Cai 54(1985)185-195

Predictability of membrane performance of reverse osmosis systems for seawater desalination
B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad 75(1989)55-69

Polysulfone membranes. I. Performance comparison of commercially available ultrafiltration membranes
T.A. Tweddle, C. Striez, C.M. Tam and J.D. Hazlett 86(1992)27-41

Modified poly-2-vinylimidazoline reverse osmosis membranes. II
M.J. Hurndall, E.P. Jacobs, A.J. Van Reenen and R.D. Sanderson 89(1992)203-222

Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes
Y. Wang, W.Y. Lau and S. Sourirajan 95(1994)155-169

Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis
A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai 96(1994)451-457

Performance of commercial seawater membranes
M. Wilf and K. Klinko
96(1994)465-478

Membrane permeability

Development of an anion-exchange membrane with increased permeability for organic acids of high molecular weight
W. Gudernatsch, C. Krumbholz and H. Strathmann 79(1990)249-260

Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model
J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer
99(1994)1-18

Membrane plants

Surface water discharge of reverse osmosis concentrates
P.J. Malaxos and O.J. Morin
78(1990)27-40

Irrigation with membrane plant concentrate: Fort Myers case study
E. Edwards and P. Bowdoin
78(1990)49-58

Membrane preparation

A preliminary probe about effects of organic solvent in membranes casting solution — Effects of poor solution
Jiajun Hu, Dekuan Kang and Chen Chen 56(1985)333-344

Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends
K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders
61(1987)211-235

An experimental approach to the preparation of hollow fiber membranes
R. McKinney, Jr. 62(1987)37-47

Prediction of membrane properties using phase diagrams in the polymer-solvent-precipitant system
Hu Jiajun 62(1987)49-53

The investigation of solution thermodynamics for the polysulfone—DMAC—water system
Li Shuguang, Jiang Chengzhang and Zhang Yuanqi 62(1987)79-88

Pore size control in the preparation of PAN membranes
Gao Congjie, Lu Xueren and Sun Xiuzhen 62(1987)89-98

Optimization in the preparation of polysulfone ultrafiltration membranes
Guo Yunlan, Shi Mingren and Hu Jiajun 62(1987)173-182

Preparation of NF ion-exchange membranes via radiation-induced grafting and their application
Xu Zhi-li 62(1987)259-264

Preparation of charged micro-mosaic membrane via radiation-induced grafting of styrene and methyl methacrylate onto Teflon FEP films
Gen Yun-Peng 62(1987)265-273

Preparation of charge-mosaic membranes by radiation-induced graft copolymerization of PE films with styrene and 4-vinylpyridine. II. Effects of pre-irradiation dosage, atmosphere, storage time and storage temperature of grafting of vinylpyridine onto PE films
Dong Chuanyin 62(1987)275-282

Membrane development for seawater desalination
E. Drioli 63(1987)57-69

Aromatic/cycloaliphatic polyamide membrane
S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
64(1987)259-269

Gamma radiation induced graft copolymerization of acrylate monomers onto isotactic polypropylene
I. Kaur and B. N. Misra
64(1987)271-284

Asymmetric membrane formation. Is the evaporation step necessary?
D. Sambrailo and B. Kunst
64(1987)321-328

Composite membranes of aromatic polyamide for desalination: Membrane preparation and characterization
J. Lora and E. Soriano
64(1987)375-386

Low-pressure reverse osmosis drying membrane reinforced by polyester web
Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
64(1987)403-410

High performance ultrafiltration membranes cast from LiCl doped solutions
A. Bottino, G. Capannelli, S. Munari and A. Turturro 68(1988)167-177

Development of bipolar membranes
B. Bauer, F.J. Gerner and H. Strathmann 68(1988)279-292

The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid)
A.J. van Reenen, N.A. Dowler and R.D. Sanderson 69(1988)1-8

Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes: low pressure formation. high pressure evaluation
F. G. Neytzell-de Wilde, C. A. Buckley and M. P. R. Cawdron
70(1988)121-136

Composite melamine-formaldehyde-furfuralcoh ol copolymerization membrane for reverse osmosis
Wang Wentong 70(1988)137-142

Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes
S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
70(1988)265-275

Preparation and characterization of polysulfone ultrafiltration membranes for concentrating waste tuna broth
E. J. Del Rosario and F. D. Duldulao
70(1988)293-298

Preparation of ultrafiltration membranes. State of the art
S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
77(1990)85-100

Anion-exchange membranes with improved alkaline stability
B. Bauer, H. Strathmann and F. Effenberger 79(1990)125-144

New composite tubular membranes for ultrafiltration
W. Doyen, R. Leysen, J. Mottar and G. Waes 79(1990)163-179

Polyorganophosphazene membranes: Preparation and transport properties
S.N. Gaeta, H. Zhang, E. Drioli and A. Basile 80(1991)181-192

The preparation of quaternized polysulfon membranes for low pressure reverse osmosis
Hao Jihua, Wang Wentong, Yang Puchen and Zhao Qingshuang 83(1991)361-371

Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations
Chen Jiayan, Wang Liancheng and Zhu Zhengyu 86(1992)301-315

New one-step process for preparation of microporous composite polysulfone/polyurethane hollow-fiber membranes
T.D. Nguyen and B.A. Solomon 90(1993)3-13

Poly(2-vinylimidazoline) composite reverse osmosis membranes
M.J. Hurndall, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 90(1993)41-54

Preparation of 6FDA-based polyimide composite membranes by CVDP process
H. Yanagishita, H. Nozoye and T. Nakane 90(1993)55-63

Theoretical and practical aspects of preparing bipolar membranes
H. Strathmann, H.-J. Rapp, B. Bauer and C.M. Bell 90(1993)303-323

Aromatic polyamide-hydrazides for water desalination. II. RO membrane performance of terpolymers
M.D. Satre and N.D. Ghatge 91(1993)121-133

Synthesis of poly(2,5-pyridinedicarboxylic acid-*alt*-hydrazine) and reverse osmosis performance of its membranes
E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki 94(1993)25-36

Characterization of membrane distillation membranes prepared by phase inversion
J.M. Ortiz de Zárate, L. Peña and J.I. Mengual 100(1995)139-148

Preparation and properties of flat-sheet membranes from poly(vinylidene fluoride) for membrane distillation
M. Tomaszewska 104(1996)1-11

Membrane processes

Membrane processes combined with enzymatic reactions: an experimental study
E. Drioli, M. Mendia and R. Molinari 24(1978)193-209

Contributions to the desalination membrane mechanism by studies of interactions in aqueous solutions and in polymer hydration
W.A.P. Luck 62(1987)19-35

Membranes, membrane processes, and their applications: Needs, unsolved problems, and challenges of the 1990's
A.S. Michaels 77(1990)5-34

Characterization of desalting concentrates
I.C. Watson 78(1990)5-9

Historic development of the concentrate regulations
W.J. Conlon 78(1990)11-16

Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis
V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli 78(1990)257-277

Methodology for estimating saving of primary energy with membrane operations in industrial processes
R. Molinari, R. Gagliardi and E. Drioli 100(1995)125-137

Quality improvement of recycled chromium in the tanning operation by membrane processes
A. Cassano, E. Drioli, R. Molinari and C. Bertolutti 108(1996)193-203

Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis
R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz 108(1996)247-253

Membrane properties

Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) — polyacrylate membranes
D. Freilich and G.B. Tanny 27(1978)233-251

Experimental methods for the determination of non-transport properties of membranes
G.P. Simon and C. Calman 59(1986)61-103

Measurement techniques of transport through membranes
W. Pusch 59(1986)105-198

Membrane characterization using the contact angle technique. I. Methodology of the captive bubble technique
W. Zhang and B. Hallström 79(1990)1-12

Seawater reverse osmosis. A study in use
A.M. Ahmed and I. Moch, Jr. 82(1991)3-13

Membrane recovery

A new concept in reverse osmosis design
F.E. Littman, H.K. Bishop and G. Belfort 11(1972)17-30

Restoration of commercial reverse osmosis membranes under field conditions
M. Wilf and P. Glueckstern 54(1985)343-350

Cleaning and regeneration of membranes
Ren Deqian 62(1987)363-371

Pilot experiences on the recovery of polluted reverse osmosis membranes
M. Fariñas, J. M. Granda, L. Gurtubai and M. J. Villagra 66(1987)385-402

Membrane resistance

Current-voltage curve of a bipolar membrane at high current density
T. Aritomi, T. van den Boomgaard and H. Strathmann 104(1996)13-18

Membrane selectivity

Advances in the electrochemistry of permselective membranes
D. Kertész, F. de Körösy and E. Zeigerson 2(1967)161-169

Selective properties of cellulose acetate membranes towards ions in aqueous solutions
T.D. Hodgson 8(1970)99-138

EMF measurements for selectivity determinations of highly selective membranes. Comparison of a flow-cell method and the membrane-strip method
J.C.T. Kwak 11(1972)61-69

On the mechanism of selectivity — Cellulose acetate membranes
A. Yi-Yan 17(1975)367-394

The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes
G. Jonsson and C.E. Boesen 24(1978)17-18

Methods for determining the selectivity of reverse osmosis membranes
G. Jonsson 24(1978)19-37

Improved membrane separations by selective chelation of metal ions in aqueous feeds
H.B. Hopfenberg, K.L. Lee and C.P. Wen 24(1978)175-189

Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis
J.L. Halary, C. Noël and L. Monnerie 27(1978)197-213

Overview of theories for water and solute transport in UF/RO membranes
G. Jonsson 35(1980)21-38

Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications
B. Dutré and G. Trägårdh 95(1994)227-267

Membrane separation

The separation of shower and laundry wastewater using Zr-PAA RO membranes
A.M. El-Nashar 23(1977)1-18

A miniature reverse osmosis/ultrafiltration system
A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer 24(1978)305-312

Physicochemical interactions in pressure driven membrane separation of glucose ascorbic acid citric acid and mannitol from single solute aqueous solution
S. W. Thiel and D. R. Lloyd 46(1983)399-406

Application of membrane separation processes to the treatment of industrial effluents for water reuse
G. R. Groves 47(1983)277-284

Two-phase ultrafiltration as an economical unit operation for recycling of detergents
H. Paul 47(1983)293-304

Gas separation using the membrane rectification technique
G. Schulz and U. Werner 51(1984)123-133

Separation of ethanol-water mixtures by pervaporation-membrane separation process
Zhu Changluo, Liu Moe and Xu Wei 62(1987)299-313

Nanofiltration membranes broaden the use of membrane separation technology
J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker 70(1988)77-88

A study on characteristics and enhancement of pervaporation - membrane separation process
Z. Changluo, L. Moe, X. Wei and J. Wenchang 71(1989)1-18

Several engineering equations in the design of reverse osmosis plants
J. Zhou, H. Ohya and K. Matsumoto 80(1991)15-30

Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures
M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya 80(1991)139-158

Zero discharge/water reuse. The opportunities for membrane technologies in pollution control
P.S. Cartwright 83(1991)225-241

Membrane separation in biological sewage treatment processes
D. Grabska-Winnicka and T.Winnicki 83(1991)243

Study of stevioside preparation by membrane separation process
Liu Yurong, Chen Yiming, Wang Lining and Jiang Jianhua 83(1991)375-382

Membrane separation processes in the pulp and paper industry
M.D. Afonso and M.N. De Pinho 85(1991)53-58

Selective removal of metal ions from ground water by polymeric binding and microfiltration
K. Volchek, L. Keller, D. Velicogna and H. Whittaker 89(1993)247-262

Membrane separation of low volatile organic compounds by pervaporation and vapor permeation
A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura 90(1993)209-233

Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes
C. Dotremont, S. Goethaert and C. Vandecasteele 91(1993)177-186

Organic waste water treatment by activated sludge process using integrated type membrane separation
O. Futamura, M. Katoh and K. Takeuchi 98(1994)17-25

New pretreatment systems using membrane separation technology
M. Oinuma, S. Sawada and K. Yabe 98(1994)59-69

Pervaporative transport of aqueous ethanol: Dependence of permeation rates on ethanol concentration and permeate side pressures
M. Tsuyumoto, K. Akita and A. Teramoto 103(1995)211-222

Membrane softening

Membrane softening: The concept and its application to municipal water supply
W.J. Conlon, C.D. Hornburg, B.M. Watson and C.A. Kiefer 78(1990)157-176

Membrane softening versus lime softening in Florida: A cost comparison update
R.A. Bergman 102(1995)11-24

Disposal of reverse osmosis membrane concentrate
D. Squire, J. Murrer, P. Holden and C. Fitzpatrick 108(1996)143-147

Membrane stability

Membrane life capacity and costs
D. Pepper 35(1980)383-396

The stability of supported liquid membranes
A.M. Neplenbroek, D. Bargeman and C.A. Smolders 79(1990)303-312

Membrane structure

The mechanism for formation of "skinned" membranes. I. Structure and properties of membranes cast from binary solutions
R. Bloch and M.A. Frommer
7(1970)259-264

The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure
M.A. Frommer, I. Feiner, O. Kedem and R. Bloch 7(1970)393-402

The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope
G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley
8(1970)369-391

The structure of cellulose acetate membranes. I. The development of porous structures in anisotropic membranes
R. Matz 10(1972)1-15

The structure of cellulose acetate membranes. II. The physical and transport characteristics of the porous layer of anisotropic membranes
R. Matz 11(1972)207-215

The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope
G.J. Gittens, P.A. Hitchcock and G.E. Wakley 12(1973)315-332

On pore flow models for reverse osmosis desalination
M.N. Sarbolouki and I.F. Miller
12(1973)343-359

Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy
H.K. Plummer, Jr., C.D. Melvin and E. Eichen 15(1974)93-108

The formation mechanism of asymmetric membranes
H. Strathmann, K. Kock, P. Amar and R.W. Baker 16(1975)179-203

A survey of structure characterization methods for ultrafiltration and reverse osmosis membranes
C.A. Smolders, M.H.V. Mulder and P.M. van der Velden 19(1976)481

The structure and relative transport number of sulphonated polysulphone membranes
N. Vinnikova and G.B. Tanny
24(1978)191-192

An expression method of compaction effects on reverse osmosis membranes at high pressure operation
H. Ohya 26(1978)163-174

Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) — polyacrylate membranes
D. Freilich and G.B. Tanny
27(1978)233-251

Investigation of pore structure of ion exchange membranes
I. Dobrevsky and A. Zvezdov
28(1979)283-289

Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid)
T. Uragami, M. Fujimoto and M. Sugihara 34(1980)311-323

Synthetic membranes: State of the art
W. Pusch and A. Walch 35(1980)5-20

Formation of asymmetric cellulose acetate membranes
H. Bokhorst, F. W. Altena and C. A. Smolders 38(1981)349-360

Hollow fine fiber vs. flat sheet membranes: A comparison of structures and performance
J.K. Beasley and R.E. Penn
38(1981)361-372

On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis
Y. Ogawa and S. Suzuki
42(1982)57-61

Morphological study of cellulose acetate benzoate membranes by scanning electron microscopy
M.D. Vyas and I.C. Mody
42(1982)107-114

Preparation and structure of synthetic membranes
A. Walch 46(1983)303-312

Asymmetric membrane preparation from nonsolvent casting systems
K. E. Kinzer, D. R. Lloyd, J. P. Wightman and J. E. McGrath
46(1983)327-334

Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements
W. Pusch and A. Tanioka
46(1983)425-434

Asymmetric behavior of membranes in pressure driven processes
V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
46(1983)447-454

Performance of RO membranes in correlation with membrane structure, transport mechanisms of matter and module design (fouling). State of the art
W. Pusch 77(1990)35-54

Preparation of ultrafiltration membranes. State of the art
S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
77(1990)85-100

Gas separation and pervaporation: Membrane and module development
H. Strathmann, C.-M. Bell and J. Kerres 77(1990)259-278

Characterization of ultrafiltration polymeric membranes
P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
78(1990)235-255

Analysis of the structure-determining process of phase inversion membranes
K. Kimmerlie and H. Strathmann
79(1990)283-302

Characteristic of the critical state of membranes in ED-desalination of milk whey
M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
86(1992)173-186

Membrane support

Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes
J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona 5(1968)359-369

Optimal perforation spacing in reverse osmosis support tubes
Y. Winograd and A. Solan
8(1970)237-241

Concentration polarization at the phase boundary of an external tubular reverse osmosis membrane
C.K. Tsao 8(1970)243-258

A new support for semi-permeable membranes
C. Bardonnet, R. Brun and M. Pages
21(1977)203-208

Lateral flow through a membrane and along a backing support to a collector
K.J. Mysels 60(1986)67-73

Membrane technology

Development of ion exchange membrane technology
T. Seto, H. Kawate and R. Komori
22(1977)495-504

Membrane technology for water re-use application
K.C. Channabasappa
23(1977)495-514

Some viewpoints on the industrial application of membrane technology
J. Murkes 24(1978)225-233

Membrane technology research at Lund Institute of Technology
G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt 27(1978)81-89

Membrane processes for water pulp and paper food. State of the art
R. Glimenius 35(1980)259-272

Membrane technology in the pulp and paper industry
O. Olsen 35(1980)291-302

Membrane technology and biotechnology
A.S. Michaels 35(1980)329-351

Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose
B. Hägerdal, M. López-Leiva and B. Mattiasson 35(1980)365-373

Membrane technology and costs; state of the art
B. Bjerke 35(1980)375-382

Recent advances in reverse osmosis and electrodialysis membrane desalting technology
M. E. Mattson and M. Lew
41(1982)1-24

The Swedish Membrane Technology Foundation
B. Hallström, B. Sivik and G. Trägårdh 42(1982)339-344

Membrane technology in the rationalization of industrial processes: Experimental results
E. Drioli 46(1983)181

Application of membrane separation processes to the treatment of industrial effluents for water reuse
G. R. Groves 47(1983)277-284

Membrane technology in the sugar industry
G. Trägårdh and V. Gekas
69(1988)9-17

Research in membrane technology for desalination and water re-use in the USSR
N.A. Platé 81(1991)281

Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing
C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang
93(1993)273-286

Water treatment for public supply in the 1990's — A role for membrane technology?
A.J. Rachwal, J. Khow, J.S. Colbourne and J. O'Donnell 97(1994)427-436

Recycling of waste water from buildings by application of membrane technology
T. Okada and O. Oba
98(1994)335-341

The development of membrane technology for wastewater treatment in textile industry in China
Jihua Hao and Qingshuang Zhao
98(1994)353-360

Membrane treatment is versatile — A single treatment facility producing boiler feed, food processing water, and drinking water
M.D. Miller and J.E. Potts
102(1995)313-319

Desalination of municipal wastewater for horticultural reuse: Process description and evaluation
D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas 103(1995)1-10

Recent developments in membrane water reuse projects
S.D.N. Freeman and O.J. Morin
103(1995)19-30

Water reclamation fuels economic growth in Harlingen, Texas. Reclamation of municipal wastewater for industrial process use
G. Filteau, C. Whitley and I.C. Watson
103(1995)31-38

Membrane transport

Temperature dependence of membrane transport parameters in hyperfiltration
J.-Y. Chen, H. Nomura and W. Pusch
46(1983)437-446

An experimental study of the complete-mixing model for radial flow hollow fiber reverse osmosis systems
M. Soltanieh and W. N. Gill
49(1984)57-88

A note on fluoride removal by reverse osmosis
B.R. Min, A.L. Gill and W.N. Gill
49(1984)89-93

Predictability of a membrane transport model: A general approach
K. Habib 75(1989)41-53

Simplified analysis of transport in reverse osmosis (RO) hollow fiber (HF) membranes
M. Abdel-Jawad and M.A. Darwish
75(1989)97-116

Polyorganophosphazene membranes: Preparation and transport properties
S.N. Gaeta, H. Zhang, E. Drioli and A. Basile 80(1991)181-192

Characterization of composite membranes by their non-equilibrium thermodynamic transport parameters
D.J. Forgach, G.D. Rose and N.E. Luteneske 80(1991)275-292

Design and analysis of reverse osmosis systems using three parameter models for transport across the membrane
S.K. Gupta 85(1992)283-296

Simplified Ohya-Sourirajan analysis for predicting permeator performance
A. Malek, M.N.A. Hawlader and J.C. Ho 91(1993)265-278

Analysis of reverse osmosis membrane behaviors in a long-term verification test
S. Kimura 100(1995)77-84

Electrodriven solute transport studies on an impregnated zirconium phosphate membrane
K. Singh and A. Singh 101(1995)115-121

Membrane-solution interfaces

Neutrality-disturbance phenomenon of membrane-solution systems
Y. Oda and T. Yawataya 5(1968)129-138

Polarization at ion exchange membrane solution interfaces
K.S. Spiegler 9(1971)367-385

EMF measurements for selectivity determinations of highly selective membranes. Comparison of a flow-cell method and the membrane-strip method
J.C.T. Kwak 11(1972)61-69

Membrane-water distribution coefficients of ions in cellulose acetate membrane
Y. Taniguchi and S. Horigome 16(1975)395-397

Formation of multilayers of liquid membrane at the cellulose acetate membrane/water interface
R.C. Srivastava and S. Yadav 28(1979)291-294

Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes
G. Mossa, R. Passino and M. Pegoraro 34(1980)57-67

Membranes

Water transport in porous and non-porous membranes
G. Thau, R. Bloch and O. Kedem 1(1966)129-138, Err. 1(1966)296

Demineralization with ion-exchange materials
B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy 3(1967)183-194

Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes
T. Uragami, K. Maekawa and M. Sugihara 27(1978)9-20

Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics
M. Mitrovic and L. Knezic 28(1979)147-156

Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications
T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan 32(1980)181-198

Passage of water and electrolytes through natural and artificial keratin membranes
G. D. Stokes and W. A. Dunson 42(1982)321-328

A study of emulsified liquid membrane treatment of phenolic waste water
Y.-C. Chang and S.-P. Li 47(1983)351-361

Properties of dynamically-formed polyblend membranes
H.G. Spencer, D.K. Todd and D.B. McClellan 49(1984)193-201

4th Tübingen Symposium on Synthetic Membranes in Science and Industry
H. Strathmann 51(1984)1-2

The influence of membrane heterogeneity on the solute retention
J. van Daalen and J.A.M. Smit 52(1985)235-247

Research and development of membrane technologies and their applications in Japan
S. Kimura 53(1985)279-287

Low energy cost desalination processes using hydrophobic membranes
G. C. Sarti, C. Gostoli and S. Matulli 56(1985)277-286

Preparation of charged micro-mosaic membrane via radiation-induced grafting of styrene and methyl methacrylate onto Teflon FEP films
Gen Yun-Peng 62(1987)265-273

Composite melamine-formaldehyde-furfuralcohol copolymerization membrane for reverse osmosis
Wang Wentong 70(1988)137-142

The removal of sulphuric acid from natural and industrial waste waters
A.E. Simpson and C.A. Buckley 70(1988)431-442

Treatment of uranium effluent by reverse osmosis membrane
Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh 71(1989)35-44

Study on the interaction between membranes and organic solutes by the HPLC method
Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan 71(1989)107-126

Prediction of reverse osmosis membrane salt rejection in multi-ionic solutions from single-salt data
M. Brusilovsky and D. Hasson 71(1989)355-366

Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 72(1989)367-379

Desal-5 membrane for water softening
D.L. Comstock 76(1989)61-72

Membranes, membrane processes, and their applications: Needs, unsolved problems, and challenges of the 1990's
A.S. Michaels 77(1990)5-34

Gas separation and pervaporation: Membrane and module development
H. Strathmann, C.-M. Bell and J. Kerres 77(1990)259-278

Removal of ethanol from aqueous streams by pervaporation
H.E.A. Brüschke 77(1990)323-329

A comparison of two commercial membranes used for biogas upgrading
M. Röhr and R. Wimmerstedt 77(1990)331-345

Relation between transport number and concentration of Donnan salt in membranes
A. Yamauchi, Y. Hirata and M. Shinoda 80(1991)61-70

Membrane distillation with fluoro-carbon membranes
K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya 81(1991)107-115

Development of non-cellulosic membranes for wastewater treatment
A.S. Bal, C.G. Malewar and A.N. Vaidya 83(1991)325-330

Comparison of different channel constructions and their efficiency in membrane cells
N.S. Orlov, I.K. Kuznetsova and A.G. Borodkin 84(1991)223

The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence)
Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu 85(1992)297-320

Membranes as fractals: Implications and concequences
C.M. Tam and A.Y. Tremblay 90(1993)77-91

Fractionation of aqueous organic mixtures by reverse osmosis
R. Rautenbach and A. Gröschl 90(1993)93-106

Effects of surface force interactions on an NF/UF membrane
B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson 90(1993)107-118

Selective separation of proteins by microfiltration with formed-in-place membranes
L. Zhang and H.G. Spencer 90(1993)137-146

Effect of ionic environment on BSA filtration and the properties of BSA deposits
S.P. Palecek, S. Mochizuki and A.L. Zydney 90(1993)147-159

Synthesis and gas transport properties of new copolymer membranes with trimethylsilyl groups
T. Nakagawa, S. Nagashima and A. Higuchi 90(1993)183-192

Pervaporation of high boilers using heated membranes
K.W. Böddeker, G. Bengtson, H. Pingel and S. Dozel 90(1993)249-257

Modified chitosan membranes for pervaporation
Y.M. Lee 90(1993)277-290

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

Removal of chlorine from dilute salt aqueous solution with a flat microporous membrane
B. Yu and Q. Li 90(1993)335-344

Determination of optimized membrane area from long-term flux decline data
M.S. Suwandi 90(1993)379-388

Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes
C. Dotremont, S. Goethaert and C. Vandecasteele 91(1993)177-186

Modelling of the ultrafiltration of electrophoretic emulsion paint
M. Bodzek and K. Konieczny 94(1994)261-272

Microfiltration of long chain carboxylates: Relationship between rejection and micellization
O. Surel and M.-H. Famelart 95(1994)11-25

Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place zirconium (IV) hydrous oxide-polyacrylate membranes in lactose-water solutions
D. Szaniawska and H.G. Spencer 95(1994)121-137

Removal of industrial latex dispersions from waste waters using microporous alumina membranes
P. Mikulásek and J. Cakl 95(1994)211-220

A science and technology with rich vitality – desalination
Jiayian Chen 100(1995)13-14

Electrochemical characterization of charged membranes and membrane systems
K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul 104(1996)19-26

RO performance analysis of cellulose acetate and TFC polyamide membrane systems for separation of trace contaminants
A.M. Hanra and V. Ramachandhran 104(1996)175-183

Promoting membrane techniques in Russia
A.G. Pervov 105(1996)105-108

Biomembrane wastewater treatment by activated sludge method
M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny 107(1996)83-95

Development and experience with new FILMTEC reverse osmosis membrane elements for water treatment
J.A. Redondo 108(1996)59-66

Production of quality drinking water with membranes
A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov 108(1996)167-170

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)67-82

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 2: Membrane autopsy
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)83-94

Membranes anion exchange, see Anion-exchange

Membranes, cellulose acetate

Study of the outer dense layer of cellulose acetate membranes used in reverse osmosis *(in French)*
Y. Trudelle and L. Nicolas 4(1968)198-208

The structure of cellulose acetate membranes. II. The physical and transport characteristics of the porous layer of anisotropic membranes
R. Matz 11(1972)207-215

A method for the determination of the optimal reverse osmosis membrane for two-solute separation
L. Kiørboe, C.E. Boesen and G. Jonsson 12(1973)35-43

A study on reproducibility of cellulose acetate membranes
H.E. Grethlein 12(1973)45-60

The effect of precipitating media on the performance of porous cellulose acetate reverse osmosis membranes
J.W. Carter, G. Psaras and M.T. Price 12(1973)177-188

A surface phenomenon occurring during the preparation of cellulose acetate reverse osmosis membranes
R. Matz 12(1973)273-275

The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope
G.J. Gittens, P.A. Hitchcock and G.E. Wakley 12(1973)315-332

On pore flow models for reverse osmosis desalination
M.N. Sarbolouki and I.F. Miller 12(1973)343-359

Physicochemical processes during fabrication of cellulose acetate membranes. Standards for performance optimization. I. Dopes containing aqueous solutions of inorganic salts *(in French)*
J.L. Halary, C. Noel and L. Monnerie 13(1973)251-267

Relation between salt rejection rho and reflection coefficient sigma of asymmetric cellulose acetate membranes
W. Pusch and R. Riley 14(1974)389-393

Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy
H.K. Plummer, Jr., C.D. Melvin and E. Eichen 15(1974)93-108

Membrane potential measurements on cellulose acetate membranes
S.G. Wong and J.C.T. Kwak 15(1974)213-224

Physicochemical processes occurring during the formation of cellulose diacetate membranes research of criteria for optimizing membrane performance. II. Influence of cellulose diacetate chain hydration on the effect of heat treatment
J. Vinit, C. Noel and L. Monnerie 15(1974)267-278

Transport coefficients of asymmetric cellulose acetate membranes
W. Pusch 16(1975)65-83

Desalination of sea water by direct osmosis
R. E. Kravath and J. A. Davis 16(1975)151-155

Reverse osmosis rejection on heavy metal cations
H.K. Johnston 16(1975)205-224

Study of the morphology and determination of the transport coefficients for reverse osmosis membranes
G. Boari, C. Merli, G. Mossa and R. Passino 16(1975)271-285

Application of system analysis in two-stage reverse osmosis process design for water desalination
H. Ohya, S. Kasahara and S. Sourirajan 16(1975)375-393

Membrane-water distribution coefficients of ions in cellulose acetate membrane
Y. Taniguchi and S. Horigome 16(1975)395-397

Water and solute transport through cellulose acetate reverse osmosis membranes
G. Jonsson and C.E. Boesen 17(1975)145-165

Fouling of cellulose acetate tubular reverse osmosis modules treating the industrial water in Tokyo
S. Kimura and S.-I. Nakao 17(1975)267-288

Specification of cellulose acetate to be used in semipermeable membranes
M.C. Chan and J.W. McCutchan 17(1975)353-366

Specification of cellulose acetate to be used in semipermeable membranes
M.C. Chan and J.W. McCutchan 17(1975)353-366

On the mechanism of selectivity — Cellulose acetate membranes
A. Yi-Yan 17(1975)367-394

The distribution of electrolytes between cellulose acetate membranes and aqueous solutions
E. Glueckauf 18(1976)155-172

The influence of mineral fillers on the membrane properties of high flux asymmetric cellulose acetate reverse osmosis membranes
I. Goossens and A. van Haute 18(1976)203-214

Artificial particulate fouling of hyperfiltration membranes
G. Belfort, G. Alexandrowicz and B. Marx 19(1976)127-138

Parameters influencing the characterization of C.A. membrane and a new rejection mechanism
R. Flores, A. Flores and L.F. del Castillo 19(1976)221-228

The desalting and recycling of wastewaters from textile dyeing operations using reverse osmosis
A.M. El-Nashar 20(1977)267-277

Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions
M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie 21(1977)165-181

Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes
W.L. Thayer, L. Pageau and S. Sourirajan 21(1977)209-219

Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane
T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani 22(1977)253-262

Desalination of sea water by reverse osmosis using tubular module
H. Tsuge, C. Yanagi and K. Mori 23(1977)235-243

Performance of hydranautics reverse osmosis (RO) units at Yuma desalting test facility
A. Desai 23(1977)367-381

The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes
G. Jonsson and C.E. Boesen 24(1978)17-18

Methods for determining the selectivity of reverse osmosis membranes
G. Jonsson 24(1978)19-37

Supplemental polymer coatings in reverse osmosis membrane improvement and regeneration
G. L. Dalton, H. S. Pienaar and R. D. Sanderson 24(1978)235-248

Deformed reverse osmosis membrane and low pressure operation
J.M. Guerrero and L.F. del Castillo 26(1978)141-151

High flux cellulose acetate ultrafiltration membranes
O. Kutowy, W. L. Thayer and S. Sourirajan 26(1978)195-210

The use of direct osmosis tests as complementary experiments to determine the water and salt permeabilities of reinforced cellulose acetate membranes
I. Goossens and A. van Haute 26(1978)299-308

On the conditions of fabrication of tubular cellulose acetate membranes
M. Matsuda, C. Kamizawa and H. Yoshitome 27(1978)41-50

Movements of univalent ions in cellulose acetate membranes
N. Kinjo and M. Sato 27(1978)71-80

Mass transport through cellulose acetate membranes — A new concept
N. Zelingher 27(1978)189-196

Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis
J.L. Halary, C. Noël and L. Monnerie 27(1978)197-213

Formation of multilayers of liquid membrane at the cellulose acetate membrane/water interface
R.C. Srivastava and S. Yadav 28(1979)291-294

Asymmetric membrane structures as a result of phase separation phenomena
L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen 32(1980)33-45

Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis
J.L. Halary, C. Nöel and L. Monnerie 32(1980)65-76

Development of one pass sea water reverse osmosis module "Hollosep"
T. Ukai, Y. Nimura, K. Hamada and H. Matsui 32(1980)169-178

Membrane filtration of NSSC-waste liquor
G. Jonsson and S. Kristensen 32(1980)327-349

Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes
G. Mossa, R. Passino and M. Pegoraro 34(1980)57-67

The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes
G. Jonsson 34(1980)141-157

Scanning electron microscopy study on reverse osmosis membranes prepared from Indian cellulosic polymers
R.N. Kapadia and V.P. Pandya 34(1980)199-215

Development of a new asymmetric alloy membrane for water desalination
P. Aptel and I. Cabasso 36(1981)25-37

The effect of pressure on the bulk polymer microstructure in cellulose acetate reverse osmosis membranes
G. Arneri 36(1981)99-104

Adsorption of water on cellulose acetate membrane
Y. Kurokawa 36(1981)285-290

Reverse osmosis with a cellulose acetate membrane in the reverse orientation
J.A.M. Smit 36(1981)291-297

Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes
J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr. 37(1981)307-311

Formation of asymmetric cellulose acetate membranes
H. Bokhorst, F. W. Altena and C. A. Smolders 38(1981)349-360

RO separation of rare earth ions from aqueous solution by hydrous Fe oxide-cellulose composite membrane
Y. Kurokawa 41(1982)115-119

Effect of recovery on desalination of the Black Sea water by reverse osmosis
I. Dobrevsky, V. Mavrov and B. Bonev 41(1982)209-214

On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis
Y. Ogawa and S. Suzuki 42(1982)57-61

Morphological study of cellulose acetate benzoate membranes by scanning electron microscopy
M.D. Vyas and I.C. Mody 42(1982)107-114

Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements
R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura 46(1983)57-66

On the reproducibility of asymmetric cellulose acetate membranes
P. Mosegaard and G. Jonsson 46(1983)313-320

Dry-RO membranes from blends of ionogenic and nonionogenic polymers
R.E. Kesting, J.M. Newman, K.T. Nam and J.F. Ditter 46(1983)343-348

Changes in water and salt transport during hydrolysis of cellulose acetate reverse osmosis membranes
J. Glater and S. McCray 46(1983)389-397

Uptake of electrolytes by cellulose acetate membranes
G. Mossa and R. Passino 46(1983)417-424

Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements
W. Pusch and A. Tanioka 46(1983)425-434

The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes
G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard 46(1983)435

Yuma desalting test facility: Foulant component study
C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty 47(1983)239-253

Studies on the application of RO in treatment of rayon plant effluent
S. Basu and S. Moulik 47(1983)335-342

Initial flux decline of the cellulose acetate butylate membranes with time under RO performance
Y. Mashiko, Y. Kurokawa and S. Saito 48(1983)147-160

Bentonite-stabilized CDA/CTA membranes: I. Improved long-term transport properties
H. Finken 48(1983)207-222

Bentonite-stabilized CDA/CTA membranes: II. Determination of the transport coefficients l_{ep} and l_p
H. Finken 48(1983)235-251

Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration
C.V. Devmurari and M.V. Chandorikar 48(1983)331-337

Precise measurement of membrane constants of cellulose acetate membranes by direct osmosis tests
M. Matsuda and C. Kamizawa 49(1984)367-378

Modification of cellulose acetate by propylene oxide
S. S. Mahajan, M. B. Sabne, K. B. Gujar and N. D. Ghatge 52(1985)327-333

Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements
N. Choji, W. Pusch, M. Satoh, T.-M. Tak and A. Tanioka 53(1985)347-361

The development of cyanoethyl CA membrane for reverse osmosis
hangshen He and Xueming Zu 56(1985)191-202

Transport properties of Toray's asymmetric cellulose acetate membranes
M. Kurihara, W. Pusch and T. Tanaka 56(1985)251-260

Reverse osmosis of wash waters from simultaneous SO_2/NO_x wet removal technique of flue gas
W. Thamm and E. Staude 61(1987)27-37

Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends
K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders 61(1987)211-235

Contributions to the desalination membrane mechanism by studies of interactions in aqueous solutions and in polymer hydration
W.A.P. Luck 62(1987)19-35

An experimental approach to the preparation of hollow fiber membranes
R. McKinney, Jr. 62(1987)37-47

A graft modified cellulose acetate hollow fiber membrane
Yang Puchen, Yan Wen and Zhang Huixin 62(1987)99-106

Concentrating xylose solution by reverse osmosis with cellulose acetate dry membrane
Liu Yurong, Cai Bangxiao, Chen Yiming and Lang Kangmin 62(1987)193-201

Long-term tests on a model SRO-80-1000 spiral-wound RO prototype
Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu 62(1987)233-238

Verification of design criteria, experience and results obtained with the plate module line at DROP, Kuwait
W. Nieszen 63(1987)247-262

Low-pressure reverse osmosis drying membrane reinforced by polyester web
Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing 64(1987)403-410

Water and effluent water treatment using reverse osmosis
R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani 67(1987)507-521

Parametric evaluation of flux decline during ultrafiltration of protein solutions
A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik 68(1988)35-44

Osmotic pressure of dextran T10 solutions
W. Pusch 68(1988)69-73

Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation
M.N. de Pinho 68(1988)211-221

Studies on diisocyanate-modified cellulose acetate membranes
K.H. Hsieh, B.Y. Lin and W.Y. Chiu 71(1989)97-105

Electromotive force and impedance studies of cellulose acetate membranes: Evidence for two binding sites for divalent cations and for an alveolar structure of the skin layer
T.S. Sørensen, J.B. Jensen and B. Malmgren-Hansen 80(1991)293-327

Deterioration of cellulose acetate by transition metal salts in aqueous chlorine
A.P. Murphy 85(1991)45-52

A screening study of 12 biocides for potential use with cellulose acetate reverse osmosis membranes
L.H. Rowley 88(1992)71-83

Comparative evaluation of industrial membranes: Correlation between transport and operational parameters
S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta 94(1993)1-10

Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes
Y. Wang, W.Y. Lau and S. Sourirajan 95(1994)155-169

Eleven biocides are investigated for microbial efficacy and membrane compatibility to use at the Yuma Desalting Plant
L.H. Rowley 97(1994)35-43

Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis
Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang 107(1996)217-221

Membranes, cellulose nitrate

Studies on syntheses and permeabilities of special polymer membranes. 40. Formation conditions of finger-like cavities of cellulose nitrate membranes
T. Uragami, Y. Ohsumi and M. Sugihara 37(1981)293-305

Membranes, cellulose triacetate

Cellulose triacetate membranes for seawater desalination
S.V. Joshi and A.V. Rao 51(1984)307-312

The structure of reverse osmosis hollow fiber membrane of cellulose triacetate (CTA)
Si Qing Lin 56(1985)395-403

Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends
K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders
61(1987)211-235

On the skinned cellulose triacetate membranes formation
L. Kastelan-Kunst, D. Sambrailo and B. Kunst 83(1991)331-342

Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis
A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
96(1994)451-457

Membranes, FT-30

The FT-30 seawater reverse osmosis membrane: Element test results
R.E. Larson, J.E. Cadotte and R.J. Petersen 38(1981)473-483

Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements
R. E. Larson, R. J. Petersen and P. K. Eriksson 46(1983)81-90

Membranes, hollow fiber

Hollow fiber permeators in industrial waste stream separations
W.P. Cooke 7(1969)31-46

Flow characteristics of semipermeable hollow fibers undergoing reverse osmosis
C. Chen and C.A. Petty
12(1973)281-293

Sea water desalination using glass hollow fibre membranes
S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
14(1974)209-216

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

Live seawater experience in Japan with hollow fiber permeators
Y. Murayama, T. Kasamatsu and J.G. Gaydos 19(1976)439-446

Hollow fiber composite reverse osmosis membrane
A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
20(1977)87-94

An analysis of reverse osmotic characteristics of B-9 hollow fiber module
H. Ohya 21(1977)257-274

Hollow fiber composite membrane modules for reverse osmosis
R.B. Davis, R.D. Burchesky and M J. Coplan 22(1977)221-227

Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre
A.M. S. Al-Adsani, A.B. Hasan and A A. Malik 22(1977)271-280

Physical aspects governing the design of hollow fiber modules
J. J. Hermans 26(1978)45-62

Long term experiments on sea water desalination at the Chigasaki Laboratory
Y. Kunisada and Y. Murayama
27(1978)333-344

Five year's experience with reverse osmosis systems using Du Pont "Permasep" permeators
C.P. Shields 28(1979)157-179

Development of one pass sea water reverse osmosis module "Hollosep"
T. Ukai, Y. Nimura, K. Hamada and H. Matsui 32(1980)169-178

Membrane technology and biotechnology
A.S. Michaels 35(1980)329-351

Reverse osmosis in the desalination of brackish water and sea water
L. Ludwig 36(1981)153-178

Effects of acceleration on reverse osmosis desalination
G.B. Andeen 36(1981)265-275

Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance
W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi
38(1981)301-318

Hollow fine fiber vs. flat sheet membranes: A comparison of structures and performance
J.K. Beasley and R.E. Penn
38(1981)361-372

Purification of high temperature water by the reverse osmosis process
S. Kimura and T. Nomura
38(1981)373-382

Single-pass desalination of high salinity seawater with reverse osmosis
H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai 38(1981)441-447

Operating experience on RO sea water desalination plant at Chigasaki Laboratory
Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
39(1981)413-421

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

Alcohol reduction in beer by means of dialysis
H. Moonen and H. J. Niefind
41(1982)327-335

Membrane replacement. Permasep® reverse osmosis desalination
C.T. Sackinger 46(1983)41-55

Ultrafiltration membrane processes: The Sleeping Giant
R.M. Quinn 46(1983)113-123

Effects of acceleration on particulate fouling in reverse osmosis
J.C. Eid and G.B. Andeen
47(1983)191-199

An experimental study of the complete-mixing model for radial flow hollow fiber reverse osmosis systems
M. Soltanieh and W. N. Gill
49(1984)57-88

Constriction of B10 hollow fibre bore diameters under operating conditions
W. T. Hanbury and A. Yuceer
54(1985)27-44

Demonstration plant for seawater desalination by reverse osmosis (RO-2 hollow fibre module line)
K. Marquardt and R. Nagel
60(1986)25-44

Flow patterns in radial flow hollow fiber reverse osmosis systems
W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee 68(1988)11-28

A twenty year case history — B-9 hollow fiber permeator
I. Moch, Jr. 74(1989)171-181

Simplified analysis of transport in reverse osmosis (RO) hollow fiber (HF) membranes
M. Abdel-Jawad and M.A. Darwish 75(1989)97-116

System identification and control of reverse osmosis desalination
I.M. Alatiqi, A.H. Ghabris and S. Ebrahim 75(1989)119-140

Pervaporation and dehydration of water-ethanol mixtures by means of cuprophan hollow fiber membranes
Jin Sheng and J.C. Mora 80(1991)71-84

Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures
M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya 80(1991)139-158

Pore size control technique in the spinning of polysulfone hollow fiber ultrafiltration membranes
S. Doi and K. Hamanaka 80(1991)167-180

Parametric study on the performance of hollow fibers modules
I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani 83(1991)373

Water desalination by ion-exchange hollow fibers
E. Korngold and D. Vofsi 84(1991)123-135

Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes
Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and Takeshi Matsuura 85(1991)1-12

Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration
H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz 90(1993)345-361

Air sweep water pervaporation with hollow fiber membranes
E. Korngold and E. Korin 91(1993)187-197

Application of a chlorine-resistant polyamide RO membrane with a hollow fiber configuration
K. Nita, K. Numata, S. Gotoh and M. Matsui 96(1994)33-41

The reference and analysis of a double-element type hollow fiber RO module in seawater desalination
N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto 96(1994)441-450

The use of hollow fiber filters to improve condensate purification efficiency in thermal power plants
H. Koushiro and Y. Kubo 98(1994)361-373

Study of an analytical model for hollow fiber reverse osmosis module systems
M. Sekino 100(1995)85-97

Effect of aging on the performance of RO hollow fiber membranes in a section of an RO plant
H.I. Al-Qahtany and N.M.S. Al-Bastaki 101(1995)177-183

Pervaporative transport of aqueous ethanol: Dependence of permeation rates on ethanol concentration and permeate side pressures
M. Tsuyumoto, K. Akita and A. Teramoto 103(1995)211-222

Performance of an aromatic polyamide hollow fiber membrane subjected to high salinity water
W.Z. Khan and E.Z. Hamad 105(1996)191-197

Drinking water treatment by using ultrafiltration hollow fiber membranes
S. Nakatsuka, I. Nakate and T. Miyano 106(1996)55-61

Water desalination by pervaporation with hollow fiber membranes
E. Korngold, E. Korin and I. Ladizhenskya 107(1996)121-129

Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis
Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang 107(1996)217-221

Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers
M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar 109(1997)303-313

Modeling and simulation of hollow fine fiber modules with radial dispersion - A parametric sensitivity study
I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani 110(1997)239-250

Membranes, Nafion

Ions and water transport across charged Nafion membranes. Irreversible thermodynamics approach
A. Narebska, S. Koter and W. Kujawski 51(1984)3-17

Membranes, non-ionic

A new method for measuring diffusion coefficients of electrolytes in nonionic membranes
C.W. Saltonstall, Jr., W.M. King and D.L. Hoernschemeyer 4(1968)309-327

Ion exclusion from neutral and slightly charged pores
L. Dresner 15(1974)39-57

On the salt rejection of non-ionic polymeric membranes
P. Bo and V. Stannett 18(1976)113-135

Membranes, PEC-1000

Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials
M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi 38(1981)449-460

Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules
M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura 46(1983)101-110

Membranes, permeability

Lateral flow through a membrane and along a backing support to a collector
K.J. Mysels 60(1986)67-73

Water-vapor permeability of polyvinyl alcohol films
Yu Xianda, Wang Anlai and Cao Suqin 62(1987)293 -297

Membrane phenomena of an amphoretic membrane in mixed electrolyte solution
A. Yamauchi, M. Shinoda and Y. Hirata 71(1989)277-287

Effect of ionic environment on BSA filtration and the properties of BSA deposits
S.P. Palecek, S. Mochizuki and A.L. Zydney 90(1993)147-159

Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes
C. Dotremont, S. Goethaert and C. Vandecasteele 91(1993)177-186

Influence of organic matter from waste water on the permeability of membranes
W. Reimann 109(1997)51-55

Membranes, PFI composite

Characteristics of PFI composite reverse osmosis membrane
Lu Xueren and Gao Congjie 62(1987)203-210

Membranes, phenol sulfonate

Water transport through cation-exchange membranes
N. Lakshminarayanaiah 3(1967)97-105

Demineralization with ion-exchange materials
B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy 3(1967)183-194

Membranes, plane

Phase inversion in plane membranes. I. Computer-aided gravimetric data acquisition and fitting procedures of the desolvation kinetics
C. Castellari and S. Ottani 69(1988)211-222

Phase inversion in plane membranes. II. A direct comparison between experiments and evaporation model predictions
C. Castellari 69(1988)223-234

Membranes, poly(acrylic acid)

Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes
S.B. Sachs, W.H. Baldwin and J.S. Johnson 6(1969)215-228

Membranes, poly(dimethylphenylene oxide)

On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes
L. Broens, D.M. Koenhen and C.A. Smolders 22(1977)205-219

Asymmetric membrane structures as a result of phase separation phenomena
L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen 32(1980)33-45

Membranes, poly(ether sulfone)

Poly(ether sulfone) membranes for desalination: Membrane preparation and characterization
T.P. Ventoza and D.R. Lloyd 56(1985)381-394

Research on polyethersulfone, polyarylsulfone and polyetheretherketone with cardo membranes
Xueren Lu and Congjie Gao 96(1994)155-161

Membranes, poly(ether/amide)

Spiral-wound poly(ether/amide) thin-film composite membrane systems
R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami 19(1976)113-126

Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients
W. Pusch and R. Riley 22(1977)191-203

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami 23(1977)331-355

Membranes, poly(ether/urea)

Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients
W. Pusch and R. Riley 22(1977)191-203

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami 23(1977)331-355

Membranes, poly(ethylene-propylene diene)-poly(acrylic acid)

Two component polymer membranes
M. Pegoraro and A. Penati 26(1978)63-83

Membranes, poly(glutamic acid)

Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes
S.B. Sachs, W.H. Baldwin and J.S. Johnson 6(1969)215-228

Membranes, poly(hydroxymethylene-co-fluoroolefin)

Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolefin) membrane by pervaporation method
I. Terada, M. Nakamura and M. Nakao 70(1988)455-463

Membranes, poly(p-phenylene terephthalamide)

Solvent resistant membranes from poly(*p* -phenylene-terephthalamide)
P. Zschocke and H. Strathmann 34(1980)69-75

Membranes, poly(styrene sulfonate)

Preparation and properties of a composite charged membrane
D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn
41(1982)249-261

Membranes, poly(vinyl alcohol)

Composite reverse osmosis membranes prepared from polyvinyl alcohol and toluene diisocyanate *(in French)*
R. Dick and L. Nicolas
17(1975)239-255

Reverse osmosis separation of inorganic salts using polyvinylalcohol membranes
Ho Nam Chang 42(1982)63-77

Membranes, poly(vinylidene fluoride)

Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid)
T. Uragami, M. Fujimoto and M. Sugihara 34(1980)311-323

Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application
F. Vigo, G. Capannelli, C. Uliana and S. Munari 36(1981)63-73

High performance ultrafiltration membranes cast from LiCl doped solutions
A. Bottino, G. Capannelli, S. Munari and A. Turturro 68(1988)167-177

Membranes, poly(vinylpyridine) acrylonitrile copolymer

Properties of reverse osmosis membranes prepared from poly(4-vinyl pyridine)-acrylonitrile copolymer and the partially quaternized copolymer
E. Oikawa and T. Ohsaki
25(1978)187-206

Membranes, polyacrylamide

Dynamic polyacrylamide membranes in the reverse osmosis
S. Antoniou, J. Springer and A. Grohmann 32(1980)47-55

Membranes, polyacrylonitrile

Asymmetric membrane structures as a result of phase separation phenomena
L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
32(1980)33-45

Pore size control in the preparation of PAN membranes
Gao Congjie, Lu Xueren and Sun Xiuzhen 62(1987)89-98

Polyacrylonitrile and polyvinyl chloride ultrafiltration membranes in the treatment of anaphoretic emulsion paint
M. Bodzek and K. Konieczny
80(1991)43-60

An acrylonitrile copolymer material for membrane manufacture. III. Manufacture of a co-mixed UF membrane of AN-MMA binary copolymer and polyvinyl chloride
Ling Al-Lian, Zheng Yong-Zhuang, Bao Shi-Yao and Fan Song-Chun
86(1992)291-300

Membranes, polyamide

The formation mechanism of asymmetric membranes
H. Strathmann, K. Kock, P. Amar and R.W. Baker 16(1975)179-203

Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA
K.G. Patel, F.L. Harris and K.C. Channabasappa 19(1976)381-388

The desalting and recycling of wastewaters from textile dyeing operations using reverse osmosis
A.M. El-Nashar 20(1977)267-277

The evaluation and selection of polymeric materials for reverse osmosis membranes
J.K. Beasley 22(1977)181-189

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
23(1977)331-355

Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes
T. Uragami, K. Maekawa and M. Sugihara 27(1978)9-20

Five year's experience with reverse osmosis systems using Du Pont "Permasep" permeators
C.P. Shields 28(1979)157-179

Reverse osmosis in the desalination of brackish water and sea water
L. Ludwig 36(1981)153-178

Studies on the application of RO in treatment of rayon plant effluent
S. Basu and S. Moulik
47(1983)335-342

Comparison of two thin-film composite membranes: Low pressure FT-30 to very low pressure NF40HF
S.D.N. Freeman and T.F. Stocker
62(1987)183-191

Seawater desalination with polyamide hollow fibre modules at DROP
R. Nagel 63(1987)225-246

Aromatic/cycloaliphatic polyamide membrane
S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
64(1987)259-269

Composite membranes of aromatic polyamide for desalination: Membrane preparation and characterization
J. Lora and E. Soriano
64(1987)375-386

Nanofiltration membranes broaden the use of membrane separation technology
J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
70(1988)77-88

Synthesis and study of RO performance of aromatic polyamide hydrazide membranes
M.P.S. Ramani and V. Ramachandhran 90(1993)31-40

Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination
M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura
96(1994)133-143

Separation and purification of lactic acid: Fundamental studies on the reverse osmosis down-stream process
M.K.H. Liew, S. Tanaka and M. Morita 101(1995)269-277

Membranes, polyarylsulphone

Research on polyethersulfone, polyarylsulfone and polyetheretherketone with cardo membranes
Xueren Lu and Congjie Gao
96(1994)155-161

Membranes, polybenzimidazolone

Reverse osmosis membranes from aromatic polymers
S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno 21(1977)183-194

Development of PBIL low pressure brackish-water reverse osmosis membranes
R.L. Goldsmith, B A. Wechsler, S. Hara, K. Mori and Y. Taketani
22(1977)311-333

Membranes, polybenzimmidazole

Study on interactions between PBIL membranes and organic solutes
Ji Jiang and Chen Jiayan
78(1990)389-396

Membranes, polycarbonate-acrylic acid copolymer

Radiation induced grafting of acrylic acid onto polycarbonate membranes
Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian 62(1987)107-115

Membranes, polyethylene

New developments in polyethylene-based membranes
R. Messalem, C. Forgacs and O. Kedem 24(1978)93

Morphology of polyethylene-based ion exchange membranes
B. Bikson, J. Jagur-Grodzinski and D. Vofsi 24(1978)95-96

Piezodialytic transport across charge-mosaic membranes
G. Blazejewska-Wisniewska and T. Winnicki 38(1981)461-471

Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents
B. Chakravorty, R. N. Mukherjee and S. Basu 46(1983)353-360

Preparation of ion-exchange membranes from modified polyethylene with high molecular weight
A.D. Dimov and I. Alexcandrova
46(1983)361-366

Preparation of charge-mosaic membranes by radiation-induced graft copolymerization of PE films with styrene and 4-vinylpyridine. II. Effects of pre-irradiation dosage, atmosphere, storage time and storage temperature of grafting of vinylpyridine onto PE films
Dong Chuanyin 62(1987)275 -282

Membranes, polyimide

Preparation of 6FDA-based polyimide composite membranes by CVDP process
H. Yanagishita, H. Nozoye and T. Nakane 90(1993)55-63

Membranes, polyorganophosphazene

Polyorganophosphazene membranes: Preparation and transport properties
S.N. Gaeta, H. Zhang, E. Drioli and A. Basile 80(1991)181-192

Membranes, polypiperazinamide

New polymer materials for reverse osmosis membranes
L. Credali, A. Chiolle and P. Parrini
14(1974)137-150

Polypiperazinamides: New polymers useful for membrane processes
P. Parrini 48(1983)67-78

Membranes, polypropylene

The concentration of suspensions by means of crossflow-microfiltration
K. Schneider and W. Klein
41(1982)263-275

Performance of fractal membranes in the ultrafiltration of skim natural rubber latex
M. S. Suwandi and M. S. Lefebvre
70(1988)225-228

Membranes polypropylene-poly(acrylic acid) graft copolymer

Two component polymer membranes
M. Pegoraro and A. Penati
26(1978)63-83

Membranes, polysulfone

New membranes for reverse osmosis. I. Characteristics of the base polymer: sulphonated polysulphones
C. Brousse, R. Chapurlat and J.P. Quentin 18(1976)137-153

The structure and relative transport number of sulphonated polysulphone membranes
N. Vinnikova and G.B. Tanny
24(1978)191-192

Asymmetric membrane structures as a result of phase separation phenomena
L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
32(1980)33-45

Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone
C. Friedrich, A. Driancourt, C. Noël and L. Monnerie 36(1981)39-62

Asymmetric membrane preparation from nonsolvent casting systems
K. E. Kinzer, D. R. Lloyd, J. P. Wightman and J. E. McGrath
46(1983)327-334

Transport through charged ultrafiltration membranes
S. Kimura and I. Jitsuhara
46(1983)407-416

Additives for the preparation of polysulfone-based ultrafiltration membranes, especially for hemodialysis and hemo-osmometer
Xu Xie-quing 48(1983)79-84

Reinforced and dry polysulfonamide membranes
Xue-Ren Lu, Cong-Jie Gao and Xiu-Zhen Sun 54(1985)207-217

The study of action of organic additives in polysulfonamide UF membranes
Guonghei Fan, Chaojun Zhang and Lingying Zheng 56(1985)325-332

The study of action of organic additives in polysulfonamide UF membranes
Guonghei Fan, Chaojun Zhang and Lingying Zheng 56(1985)325-332

Decolorization of dye solutions by continuous ultrafiltration
K. Majewska-Nowak and T. Winnicki 60(1986)59-66

New composite charged reverse osmosis membrane
K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto 68(1988)109-119

Optimal removal of chlorolignin by ultrafiltration achieved by pH control
M. Nyström and M. Lindström 70(1988)145-156

Synthesis and properties of polysulfone membranes
K. Majewska-Nowak 71(1989)83-95

Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents
K. Majewska-Nowak, T. Winnicki and J. Wisniewski 71(1989)127-135

A comparison of two commercial membranes used for biogas upgrading
M. Röhr and R. Wimmerstedt 77(1990)331-345

Reducing the protein fouling of polysulfone surfaces and polysulfone ultrafiltration membranes: Optimization of the type of presorbed layer
L.E.S. Brink and D.J. Romijn 78(1990)209-233

Ultrafiltration of bleach effluents in cellulose production
M.D. Afonso and M.N. De Pinho 79(1990)115-124

Pore size control technique in the spinning of polysulfone hollow fiber ultrafiltration membranes
S. Doi and K. Hamanaka 80(1991)167-180

The study of mechanism of organic additives action in the polysulfone membrane casting solution
H. Tai-Ping, D. Sheng-Hua and S. Ling-Ying 83(1991)343-360

Development of fabric reinforced polysulfone membranes
R. Rangarajan, N.V. Desai, R.C. Mody, D. Mohan and A.V. Rao 85(1991)81-92

Polysulfone membranes. I. Performance comparison of commercially available ultrafiltration membranes
T.A. Tweddle, C. Striez, C.M. Tam and J.D. Hazlett 86(1992)27-41

Polysulfone membranes. II. Performance comparison of polysulfone-poly(N-vinyl-pyrrolidone) membranes
C.M. Tam, T.A. Tweddle, O. Kutowy and J.D. Hazlett 89(1993)275-287

Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan
A. Higuchi, Y. Ishida and T. Nakagawa 90(1993)127-136

A study of the modified reinforced polysulfone membrane and its pilot scale-up
Yu-rong Liu, Yi-ming Chen, Li-ning Wang and Dong-sheng Chen 96(1994)145-153

Polyacrylonitrilic/polysulfone (PAN/PS) blend ultrafiltration (UF) membranes
Ai-lian Ling and Qing Chen 101(1995)51 -56

Studies in piperazine containing poly(sulphone-amide)s for use in water desalination
M.V. Biware and N.D. Ghatge 101(1995)93 -100

Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes
A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov 104(1996)113-118

Application of modified polysulfone membranes to the treatment of water solutions containing humic substances and metal ions
M. Kabsch-Korbutowicz and T. Winnicki 105(1996)41-49

Ultrafiltration plant for olive vegetation waters by polymeric membrane batteries
R. Borsani and B. Ferrando 108(1996)281-286

Membranes, polysulphonamide

Polysulfonamide as a membrane material
Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan 62(1987)221-232

The development of polysulfonamide membrane and its application in treating chromium plating wastewater
Liu Gouxin and Wu Jiangjing 62(1987)239-249

Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes
Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie 62(1987)353-361

Membranes, polysulphone

Selection of membranes for treatment of bleaching effluents
P. Zadorecki 62(1987)137-147

Optimization in the preparation of polysulfone ultrafiltration membranes
Guo Yunlan, Shi Mingren and Hu Jiajun 62(1987)173-182

Characteristics of PFI composite reverse osmosis membrane
Lu Xueren and Gao Congjie 62(1987)203-210

Crosslinked PVA-PS thin-film composite membrane for reverse osmosis
She Jian and Shen Xiao Ming 62(1987)395-403

Chlorine resistant polysulfone reverse osmosis modules
A. E. Allegrezza, Jr., B. S. Parekh, P. L. Parise, E. J. Swiniarski and J. L. White 64(1987)285-304

Separation of proteins by charged ultrafiltration membranes
S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura 70(1988)191-205

Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes
S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
70(1988)265-275

Preparation and characterization of polysulfone ultrafiltration membranes for concentrating waste tuna broth
E. J. Del Rosario and F. D. Duldulao
70(1988)293-298

Membranes, polytetrafluoroethylene based

Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films
A. Chapiro and A.-M. Jendrychowska-Bonamour
24(1978)83-91

Amphoteric membrane preparation and their application to saline water hyperfiltration
F. Vigo, G. Capannelli and S. Munari
37(1981)313-324

Membranes, polyurea

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
23(1977)331-355

Membranes, polyvinyl chloride

A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions
Wang Zhenkun, Zhang Huanxin and Chan Ruiying 62(1987)165-171

Ultrafiltration membranes obtained by poly(acrylonitrile) grafted onto poly(vinylchloride)
F. Vigo, C. Uliana and G. Dondero
70(1988)277-292

Polyacrylonitrile and polyvinyl chloride ultrafiltration membranes in the treatment of anaphoretic emulsion paint
M. Bodzek and K. Konieczny
80(1991)43-60

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

Membranes, polyvinylpyridinium coated

Dynamically formed polyelectrolyte membranes on partially cured cellulose acetate
G. Tanny and J. Jagur-Grodzinski
13(1973)53-62

Membranes, polyvinylpyrrolidone polyisocyanate

Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes
R.L. Riley, C.R. Lyons and U. Merten
8(1970)177-193

Membranes, Polyvynilidine fluoride

Characterization of membrane distillation membranes prepared by phase inversion
J.M. Ortiz de Zárate, L. Peña and J.I. Mengual 100(1995)139-148

Membranes, porous glass

Sea water desalination using glass hollow fibre membranes
S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
14(1974)209-216

Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion
G. Belfort and J. Scherfig
18(1976)43-58

High-pressure techniques with porous glass membranes
R. Schnabel and W. Vaulont
24(1978)249-272

Membranes, rod-type

Formation of UF rod-type membranes
K. Majewska-Nowak, J. Wisniewski and T. Winnicki 78(1990)417-427

Modification of the properties of rod-type membranes by varying typical parameters of the casting process for phase inversion membranes: A comparative study
K. Majewska-Nowak, J. Wis´niewski and T. Winnicki 89(1992)47-62

Membranes, see Reverse osmosis membranes

Membranes, see Ultrafiltration membranes

-

Membranes, spiral wound

-

-

Reverse osmosis pilot plant operation: a spiral module concept
T.J. Larson 7(1970)187-199

An analysis of reverse osmotic characteristics of ROGA-4000 spiral-wound module
H. Ohya and Y. Taniguchi
16(1975)359-373

Spiral-wound poly(ether/amide) thin-film composite membrane systems
R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
19(1976)113-126

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre
A.M. S. Al-Adsani, A.B. Hasan and A A. Malik 22(1977)271-280

Operation of reverse osmosis process for industrial waste water reclamation
Y. Kojima and M. Tatsumi
23(1977)87-95

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
23(1977)331-355

Performance of hydranautics reverse osmosis (RO) units at Yuma desalting test facility
A. Desai 23(1977)367-381

An analysis of reverse osmosis characteristics of ROGA spiral-wound modules
Y. Taniguchi 25(1978)71-88

Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis
M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara 32(1980)13-23

Recent developments in thin-film composite reverse osmosis membrane systems
R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami 36(1981)207-233

Operating experience on RO sea water desalination plant at Chigasaki Laboratory
Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama 39(1981)413-421

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

An analysis of the performance of a spiral wound ultrafiltration membrane, with a turbulence-promoting net
R. L. C. Flemmer, C. A. Buckley and G. R. Groves 41(1982)25-32

Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements
R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura 46(1983)57-66

Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements
R. E. Larson, R. J. Petersen and P. K. Eriksson 46(1983)81-90

Ultrafiltration membrane processes: The Sleeping Giant
R.M. Quinn 46(1983)113-123

Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents
C.A. Buckley, R.L.C. Flemmer and G.R. Groves 47(1983)171-179

Yuma desalting test facility: Foulant component study
C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty 47(1983)239-253

Short cut design methods for reverse osmosis separation with tubular modules
K. K. Sirkar and G. H. Rao 48(1983)25-42

Performance of a spiral wound ultrafiltration membrane with turbulence promoting net under conditions of strong pressure gradient and fouling
R.L.C. Flemmer 48(1983)321-329

Effects of acceleration on spiral-wound membrane performance in reverse osmosis
J. C. Eid and G. B. Andeen 52(1984)15-24

The development of the spiral-wound reverse osmosis (RO) modules
Bingchen Hu, Deqian Ren, Rongen Xu and Dingyi Yu 54(1985)105-116

The arrangement of spiral-wound ultrafiltration modules
R. L. C. Flemmer, C. A. Buckley and G. R. Groves 61(1987)159-168

Desalination of agricultural drainage return water. Part II: Analysis of the performance of a13,000 GDP RO unit
B.J. Mariñas and R.E. Selleck 61(1987)263-274

Long-term tests on a model SRO-80-1000 spiral-wound RO prototype
Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu 62(1987)233-238

Experience and results on the operation of the spiral wound module line of DROP
J. Grigoleit and B. Schöttler 63(1987)217-223

Chlorine resistant polysulfone reverse osmosis modules
A. E. Allegrezza, Jr., B. S. Parekh, P. L. Parise, E. J. Swiniarski and J. L. White 64(1987)285-304

Mass transfer and pressure loss in spiral wound modules
G. Schock and A. Miquel 64(1987)339-352

New thin-film composite low pressure reverse osmosis membranes and spiral wound modules
I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama 64(1987)387-401

Reverse osmosis TFC magnum elements for chlorinated/dechlorinated feedwater processing
W.G. Light, H.C. Chu and C.N. Tran 64(1987)411-421

Design and optimization of spiral-wound and hollow fiber RO-modules
R. Rautenbach and W. Dahm 65(1987)259-275

Spiral wound modules performance. An analytical solution. Part I.
S. Avlonitis, W.T. Hanbury, M. Ben Boudinar 81(1991)191-208

Scale formation prognosis and cleaning procedure schedules in reverse osmosis systems operation
A.G. Pervov 83(1991)77-118

Recovery of water and auxiliary chemicals from effluents of textile dye houses
S.N. Gaeta and U. Fedele 83(1991)183-194

Numerical simulation and optimisation of spiral-wound modules
M. Ben Boudinar, W.T. Hanbury and S. Avlonitis 86(1992)273-290

Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part I: Theoretical model development
J.M. Dickson, J. Spencer and M.L. Costa 89(1992)63-88

Spiral wound modules performance. An analytical solution: Part II
S. Avlonitis, W.T. Hanbury and M. Ben Boudinar 89(1993)227-246

New pretreatment systems using membrane separation technology
M. Oinuma, S. Sawada and K. Yabe 98(1994)59-69

Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model
J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer 99(1994)1-18

Assessment of thermal effects on the reverse osmosis of salt/water solutions by using a spiral wound polyamide membrane
N.M. Al-Bastaki and H.I. Al-Qahtani 99(1994)159-168

Spirally wound electrodialysis (SpED) modules
T. Wen, G.S. Solt and Y.F. Sun 101(1995)79 -91

Modelling the cross flow spirally wound electrodialysis (SpED) process
T. Wen, G.S. Solt and Y.F. Sun 103(1995)165-176

On the calculation of reverse osmosis plants with spiral-wound membrane elements
V.S. Polyakov and S.V. Polyakov 104(1996)215-226

Ibiza seawater RO — Special design features and operating data
R. Edlinger and F. Zaplana Gomila 105(1996)125-134

New solutions for construction of pressure-driven membrane equipment
F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova 108(1996)315-324

Thickness and concentration profile of the boundary layer in electrodialysis
M. Law, T. Wen and G.S. Solt 109(1997)95-103

Macroscopic fluid flow conditions in spiral-wound membrane elements
D. Van Gauwbergen and J. Baeyens 110(1997)287-299

Membranes, styrene-butadiene copolymer

Piezodialysis: Styrene-butadiene copolymer membranes
T. Yamabe, K. Umezawa, S. Yoshida and N. Takai 15(1974)127-134

Membranes, tetra-allylammonium chloride

Preferential chloride-sulfate ion transport in electrodialysis using tetra-allylammonium chloride membranes prepared by a modified method
H. Schweigart 2(1967)154-160

Membranes, trihydroxy methyl melamine-furfuryl

Investigation of performance of TMM-FA composite membrane for reverse osmosis
Wang Wentong 69(1988)235-239

Membranes, tubular

Composite tubular assembly for reverse osmosis desalination
S. Loeb 1(1966)35-49

Reverse osmosis desalination in tubular membrane duct
S. Srinivasan and C. Tien 3(1967)5-16

Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes
W.L. Griffith, R.M. Keller and K.A.Kraus 4(1968)283-308, Err. 11(1972)129

Reverse osmosis in a curved tubular membrane duct
S. Srinivasan and C. Tien 9(1971)127-139, Err. 12(1973)277

Membrane fouling. Part IV. Parallel operation of four tubular hyperfiltration modules at different velocities with feeds of high fouling potential
J.D. Sheppard, D.G. Thomas and K.C. Channabasappa 11(1972)385-398

Correction to "Reverse osmosis in a curved tubular membrane duct"
C. Tien and S. Srinivasan 12(1973)277-279, Err. 9(1971)127

Systems analysis of a multi-stage tubular module reverse osmosis plant for sea water desalination
J.W. McCutchan and V. Goel 14(1974)57-76

Analysis of reverse osmotic characteristics of American-standard type tubular module
H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka 16(1975)235-244

Fouling of cellulose acetate tubular reverse osmosis modules treating the industrial water in Tokyo
S. Kimura and S.-I. Nakao 17(1975)267-288

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes
W.L. Thayer, L. Pageau and S. Sourirajan 21(1977)209-219

Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre
A.M. S. Al-Adsani, A.B. Hasan and A A. Malik 22(1977)271-280

Use of fluidised beds as turbulence promotors in tubular membrane systems
M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay 22(1977)465-483

Desalination of sea water by reverse osmosis using tubular module
H. Tsuge, C. Yanagi and K. Mori 23(1977)235-243

High flux cellulose acetate ultrafiltration membranes
O. Kutowy, W. L. Thayer and S. Sourirajan 26(1978)195-210

On the conditions of fabrication of tubular cellulose acetate membranes
M. Matsuda, C. Kamizawa and H. Yoshitome 27(1978)41-50

Explicit flux expressions in tubular reverse osmosis desalination
G.H. Rao and K.K. Sirkar 27(1978)99-116

Concentration of raw whole milk by reverse osmosis and its influence on fat globules
R. de Boer and P.F.C. Nooy 35(1980)201-211

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

Effect of recovery on desalination of the Black Sea water by reverse osmosis
I. Dobrevsky, V. Mavrov and B. Bonev 41(1982)209-214

Ultrafiltration membrane processes: The Sleeping Giant
R.M. Quinn 46(1983)113-123

Short cut design methods for reverse osmosis separation with tubular modules
K. K. Sirkar and G. H. Rao
48(1983)25-42

Treatment of highly fouling waste waters with tubular membrane systems
S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru 49(1984)347-355

Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes
R.A. Terpstra, B.C. Bonekamp and H.J. Veringa 70(1988)395-404

Membranes, water selective

Membrane for ethanol-water separation: Water selective membrane
A. Kaji and M. Murano
54(1985)351-359

Membranes, zirconium

Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes
P. Hoornaert, C. Lefebvre and A. Van Haute 11(1972)315-327

Properties of dynamically formed membranes
T. Nomura and S. Kimura
32(1980)57-63

Utilization of the new mineral UF membranes for making semi-hard cheeses
H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut
35(1980)243-258

Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes; low pressure formation, high pressure evaluation
F. G. Neytzell-de Wilde, C. A. Buckley and M. P. R. Cawdron
70(1988)121-136

Hyperfiltration properties of a zirconium (IV) hydrous oxide-polyacrylate membrane in electrolyte-alcohol-water solutions
S. Yarlagadda and H. G. Spencer
79(1990)37-45

Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VII. Poly(acrylic acid-co-vinyl acetate) and poly(acrylic acid-co-vinyl alcohol) membranes: The effect of feed salt concentration on membrane properties
A.J. Van Reenen and R.D. Sanderson
85(1992)247-262

Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VIII. Alternative substrate materials for dynamic membranes
A.J. Van Reenen, E.P. Jacobs and R.D. Sanderson 85(1992)263-274

Membranes, zirconium oxide polyacrylate

Engineering development of hyperfiltration with dynamic membranes. Part I. Process and module development
D.G. Thomas and W.R. Mixon
15(1974)287-323

The desalting and recycling of wastewaters from textile dyeing operations using reverse osmosis
A.M. El-Nashar 20(1977)267-277

The separation of shower and laundry wastewater using Zr-PAA RO membranes
A.M. El-Nashar 23(1977)1-18

Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) polyacrylate membranes
D. Freilich and G.B. Tanny
27(1978)233-251

Energy and water conservation through recycle of dyeing wastewater using dynamic Zr(IV)-PAA membranes
A.M. El-Nashar 33(1980)21-47

An investigation of using statistically designed experiments and a computer model
A.M. El-Nashar and J.S. Shih
38(1981)397

Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration
C. A. Brandon, D. A. Jernigan, J. L. Gaddis and H. G. Spencer
39(1981)301-310

Effects of surfactants on the hyperfiltration performance of dynamic membranes
R.J. Luppino and H.G. Spencer
41(1982)33-45

Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse
G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson 47(1983)305-312

Properties of dynamically-formed polyblend membranes
H.G. Spencer, D.K. Todd and D.B. McClellan 49(1984)193-201

Metal ions

Scale control by polyacrylates: The effects of molecular weight and of traces of metals
F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor 8(1970)167-175

Improved membrane separations by selective chelation of metal ions in aqueous feeds
H.B. Hopfenberg, K.L. Lee and C.P. Wen 24(1978)175-189

The influence of different types of metal complex on the transitivity of reverse osmosis membranes
Ling Ai-lian, Gao Yi-yuan and Wang Zhi-zhong 62(1987)377-394

Selective removal of metal ions from ground water by polymeric binding and microfiltration
K. Volchek, L. Keller, D. Velicogna and H. Whittaker 89(1993)247-262

Metal recovery

Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors
K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
53(1985)197-215

The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis
Xue Deming, Song Dezheng and Liu Xiaoying 62(1987)251-257

Separation techniques with supported-liquid membranes
G. Schulz 68(1988)191-202

Metal removal

Measurement of localized metal removal in pipes by gamma-ray back scattering method
S. Abdul-Majid and U. Dawood
75(1989)185-198

Determination of scale thickness and general and localized metal removal in desalination plants by the gamma-ray interaction method
S. Abdul-Majid 91(1993)35-49

Methane

Methane recovery from landfill gas in order to produce natural gas by means of membranes
R.A. Simonet 53(1985)289-295

Field test on a methane fermentation treatment system incorporating a membrane module for municipal sewage
K. Kiriyama, Y. Tanaka and I. Mori
98(1994)199-206

Small-scale sewage plant experiment by pretreatment and methanization of suspended solid
M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka 98(1994)217-224

Process performance comparison of membrane introduced anaerobic digestion using food industry waste water
Y. Yushina and J. Hasegawa
98(1994)413-421

Microbial suspension

Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions
P. Gatenholm, C.J.D. Fell and A.G. Fane 70(1988)363-378

Reducing the amount of microorganisms in feed water for membrane demineralization
S. Pavlova and S. Prodanova
91(1993)115-119

Microbial suspensions

Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions
G. Hamer, T. Egli and N. Al-Awadhi
72(1989)31-65

Harvest of microbial suspensions by microfiltration
B. Reismeier, K.H. Kroner and M.-R. Kula 77(1990)219-233

Microbiological analysis

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

The microbial analysis of domestic cistern water in the U.S. Virgin Islands
I.R. Isquith and H. Winters
66(1987)415-421

Microfiltration

Biotechnical applications of a pleated crossflow microfiltration module
G. B. Tanny, D. Hauk and U. Merin
41(1982)299-312

Microfiltration: State of the art
R. Glimenius 53(1985)363-372

A mathematical model of steady-state cross-flow microfiltration in a woven hose support
J. W. Hunt, K. Treffry-Goatley, R. L. C. Flemmer, J. D. Raal and C. A. Buckley 61(1987)187-200

Membrane cleaning
G. Trägårdh 71(1989)325-335

The calculation of microfiltration of suspensions in cartridge filters
Y.I. Dytnersky, S.P. Agashichev and Y.K. Romanenko 81(1991)265-272

Selective removal of metal ions from ground water by polymeric binding and microfiltration
K. Volchek, L. Keller, D. Velicogna and H. Whittaker 89(1993)247-262

Selective separation of proteins by microfiltration with formed-in-place membranes
L. Zhang and H.G. Spencer
90(1993)137-146

The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review
A.D. Marshall, P.A. Munro and G. Trägårdh 91(1993)65-108

Microfiltration of long chain carboxylates: Relationship between rejection and micellization
O. Surel and M.-H. Famelart
95(1994)11-25

Removal of industrial latex dispersions from waste waters using microporous alumina membranes
P. Mikulášek and J. Cakl
95(1994)211-220

Three-dimensional simulation of random packing and pore blocking phenomena during microfiltration
T. Kawakatsu, M. Nakajima, S. Nakao and S. Kimura
101(1995)203-209

The treatment of groundwater containing hydrogen sulfide using microfiltration
M.A. Thompson, U.G. Kelkar and J.C. Vickers 102(1995)287-291

Adsorption of globular proteins on polymeric microfiltration membranes
K. Kontturi and M. Vuoristo
104(1996)99-105

Design of membrane separation plants using a module data base
R. Günther and J. Hapke
104(1996)119-128

Process factors during removal of oil-in-water emulsions with cross-flow microfiltration
A.B. Koltuniewicz and R.W. Field
105(1996)79-89

Membranes for water production and wastewater reuse
A.G. Fane 106(1996)1-9

Aspects of microfiltration and reverse osmosis in municipal wastewater reuse
S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider
106(1996)25-29

Filter backwash water recycling using crossflow microfiltration
S. Vigneswaran, S. Boonthanon and H. Prasanthi 106(1996)31-38

Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse
G.T. Seo, Y. Suzuki and S. Ohgaki
106(1996)39-45

Study on fouling materials in the membrane treatment process for potable water
Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa 106(1996)71-77

Opportunities for decentralized treatment, sewer mining and effluent re-use
R. Butler and T. MacCormick 106(1996)273-283

Membrane fouling decrease by microfiltration with ozone scrubbing
S. Takizawa, K. Fujita and K.H. Soo 106(1996)423-426

Performance and fouling of inorganic tubular microfilters
J.J. Porter and Shuzhong Zhuang 107(1996)203-215

Chromium(III) salts recovery process from tannery wastewaters
C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini 108(1996)183-191

Large scale operating experience in membrane systems for water and waste water reclamation
N. Randles 108(1996)205-211

Use of MnO_2 as a dynamic membrane with crossflow microfiltration: Slow membraning technique
M.H. Al-Malack and G.K. Anderson 109(1997)15-24

Microfiltration system as a pretreatment for RO units: Technical and economic assessment
S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney 109(1997)165175

Microfiltration, crossflow

Crossflow microfiltration in the process industry
T.J. van Gassel and S. Ripperger 53(1985)373-387

Microfiltration membranes

The concentration of suspensions by means of crossflow-microfiltration
K. Schneider and W. Klein 41(1982)263-275

Development of an ethanol/sorbitol process using a ceramic membrane cell recycle bioreactor
U.H. Chun and P.L. Rogers 70(1988)353-361

Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions
P. Gatenholm, C.J.D. Fell and A.G. Fane 70(1988)363-378

Characterization of surface change properties of synthetic microfiltration membranes by means of a streaming current method
H. Zhang and U. Werner 79(1990)271-281

Fouling resistance models in MF and UF
K.M. Persson and J.L. Nilsson 80(1991)123-138

Colloidal fouling of microfiltration membranes during the treatment of aqueous feed streams
R.J. Wakeman and E.S. Tarleton 83(1991)35-52

Effect of the solution-gel-solid system transition on the properties of microfiltration membranes
N.P. Leksovskaia, Z.Y. Chereisky, I.G. Ruban and O.I. Nachinkin 86(1992)91-100

Organic waste water treatment by activated sludge process using integrated type membrane separation
O. Futamura, M. Katoh and K. Takeuchi 98(1994)17-25

Microfouling

In-plant microfouling in desalination
H. Winters and I.R. Isquith 30(1979)387-399

Microporous and porous membranes

Preparation and properties of flat-sheet membranes from poly(vinylidene fluoride) for membrane distillation
M. Tomaszewska 104(1996)1-11

Microporous membranes

Selection of microporous membranes for optimum separations
H.W. Ballew and M.C. Porter 34(1980)3-9

New insights into the structure of microporous membranes obtained using a new pore size evaluation method
M.G. Katz and G. Baruch 58(1986)199-211

Separation techniques with supported liquid membranes
G. Schulz 68(1988)191-202

Rotary microporous filtration
A. Rushton and G.S. Zhang 70(1988)379-394

New one-step process for preparation of microporous composite polysulfone/polyurethane hollow-fiber membranes
T.D. Nguyen and B.A. Solomon 90(1993)3-13

Performance and fouling of inorganic tubular microfilters
J.J. Porter and Shuzhong Zhuang 107(1996)203-215

Microporous supports

Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) — polyacrylate membranes
D. Freilich and G.B. Tanny 27(1978)233-251

Microprocessors

Desalination plant control with microprocessor based digital technology
G. O. Hultin and R. Harper 45(1983)329-336

A microprocessor-based data monitoring and control system for a continuous ion exchange plant
E. W. Randall 49(1984)169-184

Mild steel

Corrosion of mild steel under operating conditions of a distillation desalting plant
E.V. Konstantinova and L.S. Semenova 5(1968)90-94

Corrosion of welds in seawater
T. Hodgkiess, N. Eid and W.T. Hanbury 27(1978)129-136

Corrosion of welded samples in seawater
T. Hodgkiess, W. T. Hanbury, M. Arndt and N. Eid 31(1979)399-410

Mine water

Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors
K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
53(1985)197-215

A field trial of seeded reverse osmosis for the desalination of a scaling-type mine water
R. C. Harries 56(1985)227-236

Pre-treatment and desalination of mine drainage water in a pilot plant
J. Sikora, C-H. Hansson and B. Ericsson 75(1989)363-378

Mineral recovery

By-product recovery from Saudi desalination plants
I. S. Al-Mutaz 64(1987)97-110

Techno-economic feasibility of extracting minerals from desalination brines
I.S. Al-Mutaz and K.M. Wagialla
69(1988)297-307

Modelling

Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation
A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva 92(1993)21-41

Modelling and simulation of a multistage flash (MSF) desalination plant
A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan, H. and P.B. Deshpandey 97(1994)555-586

Modelling the cross flow spirally wound electrodialysis (SpED) process
T. Wen, G.S. Solt and Y.F. Sun
103(1995)165-176

Prediction of the behavior of long electrodialysis desalination channels through testing short channels
V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko
107(1996)245-250

A numerical model of steady-state permeate flux during cross-flow ultrafiltration
Y. Lee and M.M. Clark
109(1997)241-251

Modeling and simulation of hollow fine fiber modules with radial dispersion - A parametric sensitivity study
I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani 110(1997)239-250

Modules

Reverse osmosis sea water test facility on board NS Otto Hahn
K.W. Böddeker, W. Hilgendorff and J. Kaschemekat 18(1976)307-313

Separation of molecular mixtures by membranes — A new module system
J. Lahrs 51(1984)37-44

Separation of molecular mixtures by membranes — A new module system
J. Lahrs 51(1984)37-44

New thin-film composite reverse osmosis membranes and spiral wound modules
Y. Kamiyama, N. Yoshioka, K. Matsui and K. Nakagome
51(1984)79-92, Err. 51(1984)336

Significance of effects in a reverse osmosis desalination unit
S. G. Serag-El-Din and S. S. Mekhemar 51(1984)231-254

Optimisation of membrane module design for brackish water desalination
D.E. Wiley, C.J.D. Fell and A.G. Fane
52(1985)249-265

Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration
H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz 90(1993)345-361

Molybdenum effect

Oxide film thickening on some molybdenum-containing stainless steels used in desalination plants
A. M. Shams El Din and N. J. Paul
69(1988)251-260

The effect of molybdenum on the corrosion behaviour of some steel alloys
M.I. Hazza and M.E. El-Dahshan
95(1994)199-209

The effect of molybdenum on the corrosion behaviour of steel alloy in sea water
A. Al-Arifi, M.E. El-Dahshan and M.I. Hazzaa 97(1994)77-86

Multi-effect desalters

Thermovapor compression desalters: Energy and availability — Analysis of single- and multi-effect systems
N.M. Al-Najem, M.A. Darwish and F.A. Youssef 110(1997)223-238

Multi-effect distillation

The analysis and performance of large-scale stand-alone solar desalination plants
P.T. Tsilingiris 103(1995)249-255

Multi-flash desalination

Improved antiscaling treatment for desalination plants
P. Zini, R. Zannoni and R. Lucenti
66(1987)285-298

Multi-flash desalination and cogeneration to solve the water supply problems in southeastern Sicily
E. Cardona, S. Culotta, L. Mangiaracina and R. Terranova
106(1996)121-130

Multi-stage flash

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Progress on the design of multiflash evaporators
J.M. Stewart and W.R. Querns
3(1967)139-146

The optimal design of multi-stage flash evaporators by dynamic programming
S. Itahara and L.I. Stiel
4(1968)248-257

Evaporation for desalination. Improved multistage flash (MSF) processes
D.F. Othmer 6(1969)13-24

An advanced seeding process in saline water conversion
K.R. Fröhner and H. Panahandeh
16(1975)261-269

The falling film MSF evaporator
F.C. Standiford 19(1976)35-43

Desalination through the vapour compression process in large plants
J.P. le Martret 19(1976)337-348

Flashing flow of water in conduits between chambers in MSF units
A.A. Rizk, M.A. Darwish and S.M. El-Haggar 20(1977)299-318

The barium sulfate seeding process
F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh 21(1977)59-70

Bluehills desalination plant — Engineering investigation
O.J. Morin 22(1977)13-20

Report on the high flow rate long tube designed multistage flash evaporator test module
S. Toyama 22(1977)21-30

Heat transfer in a multi-stage flash/fluidized bed evaporator (MSF/FBE)
A.W. Veenman 22(1977)55-76

Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities
Y. Tazawa, Y. Nojiri and K. Fujii 22(1977)111-120

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes
X. Ibarra-Herrera 30(1979)91

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D.K. Emmermann and G.F. Tusel 30(1979)499

New geometry for MSF units
H.T. El-Dessouky and F. Mayinger 31(1979)45-55

A system for the experimental study of flash evaporation
N. Lior and R. Greif 31(1979)87-99

The standard module philosophy for multi stage flash/fluidized bed evaporation: a new approach in desalination
D.G. Klaren and N. Halberg 31(1979)233-240

A review of scale control methods
N. M. Wade 31(1979)309-320

Removal of accumulated deposits by chemical treatments in multistage flash distillation units
A. Brandel and J. Riebe 31(1979)341-350

MSF evaporator fabricated from reinforced thermosetting materials
O. J. Morin and R. A. Johnson 31(1979)355-363

A comparison of the operating characteristics of conventional multi-stage flash evaporation and multi-stage flash/fluidized bed evaporation
G. Spanhaak 31(1979)511-519

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project
R. Manjarrez and M. Galván 31(1979)545-554

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D. K. Emmermann and G. F. Tusel 33(1980)229-239

Optimal selection of major equipment in dual purpose plants
E. Gabbrielli 36(1981)1-23

Comparison of MSF heat rejection sections and seawater cooled power station condensers
B.M. Watson and K. Eimer 38(1981)49-56

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Foam control additives in MSF desalination
M. H. Auerbach, J. J. O'Neill, R. A. Reimer and S. W. Walinsky 38(1981)159-168

Present trends in materials selection and performance in multi-stage flash desalination units
J. D. Birkett and E. H. Newton 38(1981)207-222

Heat transfer and fluid flow characteristics in flash desalination units
E. E. Khalil, M. M. Hilal, M. F. El-Fouly and H. Z. El-Mogy 39(1981)283-294

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

Studies, testing, and development of a line of brine recirculating pumps for sea water desalinization installations
A. Le Grand, J. Gatignol and J.F. Lapray 39(1981)351-361

Combined MSF/VTE-modules for hybrid thermal seawater desalination plants
J. Hapke and B. Uckermann 39(1981)373-384

An integrated self sufficient multipurpose plant for seawater desalination
K. Kuenstle and G. Brunner 39(1981)459-474

Trends in the major cost components of MSF desalting and their implications for future thermal desalting plant
F.C. Wood 40(1982)327-337

Investment costs and energy consumption of the MSF/FBE in comparison with the MSF
J.P.P. Tholen 40(1982)341-345

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel 44(1983)61-72

Losses in MSF desalination units
H.T.A. El-Dessouky 44(1983)103

An update of intube forced convection heat transfer coefficients of water
T.J. Rabas and D. Cane 44(1983)109-119

Seawater desalination with very low energy consumption
L. Cavalieri and G. Nasser 44(1983)143-151

An improved MSF evaporator configuration
D. L. Moen and D. Cane 45(1983)25-34

Design, construction and operation of a combined MSF/VTE-test evaporator
J. Hapke and A. Mader 45(1983)35-36

Solutions for coupling a mechanical vapour compression distiller with a multi-stage-flash evaporator
K. Genthner and M.M. El-Allawy 45(1983)143-152

Operating experience of desalination units in Schevchenko
J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
45(1983)167-174

Prevention of calcium sulfate scale deposition by a fluidized bed
J.A.M. Meijer 47(1983)3-15

Scale control additive — Practical experiences in multistage flash plants
J.C. Bernard and E. Demolins
54(1985)301-305

Impacts against the wall of a scaled-up fluidized bed
J.A.M. Meijer, J.A. Wesselingh, A. Clobus and M.L. A. Goossens
58(1986)1-18

The multi-effect boiling desalting system and its comparison with the multi-stage flash system
M.A. Darwish and A.A. El-Hadik
60(1986)251-265

Exergy analysis of multi-stage desalination plants
V.N. Slesarenko and A.S. Shtim
61(1987)1-5

Experimental verification of interstage sluice gate design equations
M. M. Hilal, M. A. Marwan and A. H. Mariy 61(1987)7-16

Critical comparison between energy consumption in large capacity reverse osmosis (RO) and multistage flash (MSF) seawater desalting plants
M.A. Darwish 63(1987)143-161

The effect of interstage heat leakage on the thermal performance of MSF evaporators
T.J. Rabas 65(1987)153-159

Development of training simulator for MSFE desalination plant
M. Kishi, K. Hattori, M. Tatsumoto and S. Koyama 66(1987)75-90

Cost-effectiveness of solar water production
R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari
71(1989)165-175

Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 72(1989)367-379

Technical aspects of reducing desalting water costs in distillation methods
M.A. Darwish and M. Abdel-Jawad
72(1989)381-393

Prospects of hybrid RO-MSF desalting plants in Kuwait
A.M.R. Al-Marafie 72(1989)395-404

Study of the operating conditions for three large MSF desalination units each of capacity 7.2/8.6 mgd (27360/32832 ton/day) in Abu Dhabi, UAE
M.H. Ali El Saie, M.S.I. El Kafrawi and M.I. Kamel 73(1989)207-230

Practical experience in scale control
M.A.K. Al-Sofi, S. Khalaf and A. Al-Omran 73(1989)313-325

Operational experience of once through MSF desalination units
A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja 73(1989)327-340

Transient model of multistage flash desalination
M.A. Rimawi, H.M. Ettouney and G.S. Aly 74(1989)327-338

Optimum design for a hybrid desalting plant
I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem 76(1989)177-187

Hybrid desalting systems
L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast
76(1989)189-197

Technical aspects of reducing desalting water cost by distillation methods
M.A. Darwish and M. Abdel-Jawad
76(1989)305-322

Numerical predictions of evaporative behaviors of horizontal stream inside a multi-stage-flash distillator
K.W. Seul and S.Y. Lee
79(1990)13-35

Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India
P.K. Tewari, S. Prabhakar and M.P.S. Ramani 79(1990)85-93

Simulation and design of MSF desalination processes
O.A. Hamed and S. Aly 80(1991)1-14

A model for stagewise calculation of non-condensable gases in multi-stage evaporators
A. Seifert and K. Genthner
81(1991)333-347

A calculation method for condensers in multi-stage evaporators with non-condensable gases
K. Genthner and A. Seifert
81(1991)349-366

Some theoretical aspects in simulation of multiple stage desalination systems
J.M. Montagna, N.J. Scenna and T. Melli 81(1991)437-448

The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai
Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas 83(1991)65-75

An overview of modern control strategies for optimizing thermal desalination plants
D.M.K. Al-Gobaisi, A.S. Barakzai and A.M El-Nashar 84(1991)3-43

Review of design and specifications of the world largest MSF units 4x(10-12.8 MIGD)
A. Al-Radif, D.M.K. Al-Gobaisi, A.M. El-Nashar and M.S. Said
84(1991)45-84

Dynamic behaviour of MSF desalination plants
I.S. Al-Mutaz and M.A. Soliman
84(1991)103

Thermal analysis of multi-stage flash desalting systems
M.A. Darwish 85(1991)59-79

Effect of liquid level on flow behaviors inside a multi-stage flash evaporator — A numerical prediction
K.W. Seul and S.Y. Lee
85(1992)161-177

Seawater desalting for Southern California: Technical and economic considerations
G. Hess, O.J. Morin and W.V. Carrigan 87(1992)55-68

Optimizing and planning of seawater desalination
W.F.J.M. Nooijen and J.W. Wouters
89(1992)1-20

The relationship between flow pattern and thermal non-equilibrium in the multi-stage flash evaporation process
O. Miyatake, T. Hashimoto and N. Lior 91(1993)51-64

Unity of control and identification in multistage flash desalination processes
G.P. Rao 92(1993)103-124

Operational optimization of MSF systems
C.D. Hornburg and B.M. Watson 92(1993)333-351

Progress in distillation
R. Rautenbach 93(1993)1-13

The MSF desalination process and its prospects for the future
M.H. Ali El-Saie 93(1993)43-56

Design and operating comparison of MSF and MED systems
O.J. Morin 93(1993)69-109

Theoretical analysis of a novel modified recirculation multi-stage flash low temperature system
S.E. Aly 95(1994)189-198

A full decade of operating experience on Al-Khobar-II multi-stage flash (MSF) evaporators (1982-1992)
M.A.K. Al-Sofi, M.A. Al-Hussain, A.A.A. Al-Omran and K.M. Farran 96(1994)313-323

Selecting and tuning the control loops of MSF desalination for robustness
M.H. Ali El-Saie and M.H. Erfan Hafez 97(1994)529-540

Developments in the multi-stage desalting system
M.A. Darwish, M.M. El-Rafaee and M. Abdel-Jawad 100(1995)35-64

Fuel allocation in dual-purpose plants
M.A.K. Al-Sofi and M.M. Srouji 100(1995)65-70

Some experiments on flash evaporation enhancement by electrolytically generated bubbles
N. Lior and E. Nishiyama 100(1995)71-76

Neural networks for the identification of MSF desalination plants
R. Selvaraj, P.B. Deshpande, S.S. Tambe and B.D. Kulkarni 101(1995)185-193

Studies on the vaporization mechanisms of organic pollutants in an evaporator
K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty 103(1995)177-187

Exergy analysis of major recirculating multi-stage flash desalting plants in Saudi Arabia
F.A. Al-Sulaiman and B. Ismail 103(1995)265-270

Steady-state analysis of multi-stage flash desalination process
H. El-Dessouky, H.I. Shaban and H. Al-Ramadan 103(1995)271-287

Design of a 1.4 mgd desalination plant based on MSF and RO processes for an arid area in India
H.K. Sadhukhan and B.M. Misra 106(1996)17-23

A comparative study of RO and MSF desalination plants
I.S. Al-Mutaz 106(1996)99-106

Solving equations simulating the steady-state behavior of the multi-stage flash desalination process
H. El-Dessouky and S. Bingulac 107(1996)171-193

Titanium hydride formation from Arabian Gulf water
A.M. Shams El Din, T.M.H. Saber and A.M. Taj El Din 107(1996)265-276

Environmental impacts of seawater distillation and reverse osmosis processes
A.J. Morton, I.K. Callister and N.M. Wade 108(1996)1-10

Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B
C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan 108(1996)37-42

Cogeneration with the LT-MED desalination process
G. Kronenberg 108(1996)287-294

Improved equations for the calculation of non-equilibrium temperature loss in MSF
R. Rautenbach, S. Schäfer and S. Schleiden 108(1996)325-333

ENEL experience of seawater desalination plants
A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi 108(1996)345-355

Modeling multistage flash desalination plants
M. Rosso, A. Beltramini, M. Mazzotti and M. Morbidelli 108(1996)365-374

Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants
I. Kamal and G.V. Sims 109(1997)1-13

Design of robust SISO Pl controllers for a MSF desalination plant
M. Chidambaram, B. Chandasekhara Reddy and D.M.K. Al-Gobaisi 109(1997)109-119

Energy consumptions and costs with a multi-stage flashing (MSF) desalting system
M.A. Darwish, F.A. Yousef and N.M. Al-Najem 109(1997)285-302

Multi-stage flash distillation MSF see Distillation, MSF

Multi-stage flash plants

Optimisation and design of large scale multi stage flash distillation plants
D.W. Clelland and J.M. Stewart 1(1966)61-76

Study of fluid mechanics and heat transfer in multiflash desalination plants *(in French)*
R. Douvry and M. Cohen de Lara 2(1967)345-357

The choice of basic parameters of a multi-stage flash plant for sea water desalination
L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Vicebatt and V.M. Lavygin 4(1968)94-102

The Eilat 1,000,000 gpd multi-stage flash distillation plant operating experience
N. Zuckerman 4(1968)167-197

Technical and economic analysis of several circuit diagrams of multi-stage flash distillation plants (*in German)*
A.I. Kornejitschev and A.W. Isvekov 5(1968)17-28

Comparison of economic data of the main types of the desalting distillation plants
S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin 5(1968)29-33

Test of the desalting flash pilot plant with recirculating seed
V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo 5(1968)34-39

Evaporation for desalination. Improved multistage flash (MSF) processes
D.F. Othmer 6(1969)13-24

Summary report on survey of materials behavior in multistage flash distillation plants
E.H. Newton and J.D. Birkett 6(1969)229-237

The Eilat 1,000,000 GPD multi-stage flash distillation plant — Third year of operation
N. Zuckerman 6(1969)309-317

The simulation and optimization of single effect multi-stage flash desalination plant
J.H. Beamer and D.J. Wilde 9(1971)259-275

Construction and initial operation of the VTE/MSF module
C. Grua 14(1974)1-10

Evaluation of the calcium diminution in the circulated brine of a BSS-MSF plant
K. R. Fröhner 16(1975)157-167

Sludge depositions in a long tube-high flow MSF test plant
T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka 17(1975)87-95

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Desalination plant of 3.8 mgpd at Gela (Sicily)
A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci 19(1976)317-324

Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants
T. Sawa, K. Izumi and S. Takahashi 19(1976)369-380

Two detailed case studies of large Libyan desalination plants and their influence on development
M. Aswed and H. El-Hares 20(1977)239-247

Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East
S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny 20(1977)257-266

Progress of multistage flash evaporation process in Japan
S. Toyama 20(1977)343-352

Electrodialysis plant at Hatsushima
K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada 21(1977)45-50

Operating characteristics of 30,000 t/d module MSF test plant
K. Yokoyama, Y. Ikenaga and T. Yamamoto 22(1977)151-158

Experiences on VTE distillation plants in Japan
H. Satone, S. Funahashi and S. Inoue 22(1977)169-179

Experience with desalination plants containing titanium heat exchange tubing
J.A.S. Green, B.W. Gamson and W.F. Westerbaan 22(1977)359-368

Corrosion under heat flux encountered in desalination plant
S. Kido and T. Shinohara 22(1977)369-378

Some design aspects deduced from the thermodynamic calculations for MSF desalination plants
J. Lammers, G. Scheffler and P. Monheim 22(1977)385-393, Err. 23(1977)588

Analysis of start-up characteristics of commercial MSF plant
K. Yokoyama, Y. Ikenaga, S. Inoue and T. Yamamoto 22(1977)395-401

Corrosion resistance of titanium in MSF desalination plant
K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka 22(1977)403-413

The pH control in the large-scale MSF plants by using drop structure type decarbonator
T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome 22(1977)415-423

Some special design features of Kuwait MSF plants
Z.M. Abu-Eid and A.G. Fakhoury 23(1977)263-284

On line tube cleaning systems for polyphosphate plants
S.V. Cabibbo and J.T. Callahan 23(1977)311-319

Integration of MSF desalination plants into large steel works complexes in coastal regions
G. Scheffler and J. Lammers 23(1977)433-447

The application of a high temperature scale control additive to a European MSF plant
G. Spanhaak, M.A. Finan and A. Harris 23(1977)455-464

Concentration of heavy water in seawater distillation process
T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa 25(1978)61-69

The MSF desalination process: A comparison of acid and polyphosphate treatment plants
K. Hill 25(1978)111-122

Qatar desalination plants
D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti 26(1978)109-116

Design and operation of 2 x 2.5 mgd Bahrain desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 26(1978)117-125

The Bushehr 200,000 m^3/d desalination plant
M. Edalat, J. Entessari and H. Hamidi 26(1978)127-140

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt 30(1979)101-126

Features of desalination plants in semi-arid areas
A.H. Nasrat and T.V. Balakrishnan 30(1979)187-202

Saudi Arabian-U.S. joint agreement for technical cooperation in desalination
I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan 30(1979)247-157

Comparison of corrosion and scaling behaviour of two acid-dosed MSF seawater distillation plants
F.C. Wood and Y.N. Wu 30(1979)347-358

Reliability in estimating investment costs for large MSF-plants
H.E. Hoemig and B.R. Soeltner 30(1979)515-523

Analysis of very large MSF desalination units
D. Barba, A. Germana and G. Tagliaferri 30(1979)553-

Assessment of MSF-evaporator design with reduced cooling water requirements
K. Genthner and M. El-Allawy 31(1979)57-68

A control system for multi-stage flash desalination plants
R. Greffrath and F. Mayinger 31(1979)71-83

Modular program for design and simulation of desalination plants
R. Rautenbach and H. G. Büchel 31(1979)85

The influence of process temperatures on the design of multi-stage flash distillation plants
K. Thies and J. Hapke 31(1979)101-111

Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia
F. Fioravanti, D. Falleni, G. Odone and A. De Maio 31(1979)155-158

Investigations in regard of MSF desalination plant engineering during 7 years of operation
H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich 31(1979)159-169

Engineering and process experience deriving from various solutions in designing MSF evaporators
D. Barba et al. 31(1979)171

MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry
R. Rautenbach, P. Monheim and D. Zebrowski 31(1979)197-206

The use of acid and additive. Practical experiences in a multistage flash plant
J. Stewart, R. Bom and M.A. Finan 31(1979)299-307

An advanced method for sea water chemical treatment in MSFD plants
A. De Maio, G. Odone, E. Palmisano and R. Zannoni 31(1979)321-331

Operating experience of a large multistage flash evaporator in Sultanate of Oman
S. Chalchal 31(1979)333-340

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube
T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo 31(1979)389-398

Technical and economical evaluation of an MSF solar energy powered desalination plant
S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito 31(1979)443-455

On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants
R. Rautenbach and E. Ghafour 31(1979)521-532

Reliability analysis of desalination equipment
A. Unione, E. Burns and A. Husseiny 32(1980)225-237

Analysis of large desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 33(1980)1-10, Err. 30(1979)553

Engineering and process experience deriving from various solutions in the design of MSF evaporators
D. Barba 33(1980)11-20

MSF desalination plants. Availability, reliability and safety analysis
A. Unione, E. Burns and A. A. Husseiny 33(1980)49-84

Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait
F.H. Butt and A.H. Bou-Hassan 36(1981)129-136

Advantages of the ejectocompression process in sea water desalination
M. Lucas and S. Hessemans 38(1981)57-63

Foam control additives in MSF desalination
M. H. Auerbach, J. J. O'Neill, R. A. Reimer and S. W. Walinsky 38(1981)159-168

factors affecting the brine scaling potential in MSF plants
K. G. Cooper, L. G. Hanlon, G. M. Smart and R. E. Talbot 38(1981)175-184

Corrosion problems caused by bromine formation in MSF desalination plants
J.W. Oldfield and B. Todd 38(1981)233-245

Pre-service corrosion control in multiflash desalination plants
L. Giuliani 38(1981)295

Control and instrumentation experience at Lok on Pai MSF seawater desalination plant
A.R. George and B. Tyler 39(1981)35

Design and operation experience with solar powered multistage desalination plants
R. Kriesi 39(1981)109-116

Performance evaluation of MSF plants, the case of Jeddah plants
I. I. Kutbi, Z. A. Sabri and A. A. Husseiny 39(1981)193-204

Performances study of water desalination methods in Saudi Arabia
A.G. Maadhah and C.K. Wojcik 39(1981)205-217

Operational experience of 2 x 11,500 m^3d MSF seawater desalination plant
S. Khalaf, M. Alarrayedh and A.M. Alawadi 39(1981)219-227

Experience in commissioning large desalination plants in the Middle East
D.W. Black and R.M. Morris
39(1981)229-239

Combined MSF/VTE-modules for hybrid thermal seawater desalination plants
J. Hapke and B. Uckermann
39(1981)373-384

Distillation and reverse osmosis: Energy consumption and costs
N.M. Wade and M.R. Hornsby
40(1982)245-257

Seawater desalting energy requirements as a function of various local conditions
A. C. F. Ammerlaan 40(1982)317-326

High temperature distillation process with sea water feed decalcification pretreatment
D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
40(1982)347-355

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Operating experience of MSF units in Saudi Arabia
N. Nada 41(1982)57-69, Err. 41(1982)337

The operation of sea water distillation plants in relation to materials selection
R. Heaton and T. A. Douglas
41(1982)71-80

Reliability of MSF processes based on operation history
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 41(1982)81-113

Short-term low as well as high temperature operation of an MSF plant using Belgard EVN as a scale control additive
F. H. Butt and A. H. Bou-Hassan
42(1982)79-86

Operational data analysis of MSF desalination plants. A case study of Jeddah I
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)163-197

Applied similarity criteria in the scale-up from existing to large MSF desalination plants
D. Barba, S. Arazzini and G. Migliorini 44(1983)29

The exergetic efficiency of MSF process and the conditions of desalination by waste heat
Shichang Wang 44(1983)39-49

Utilisation of hydraulic coupling for brine recirculation pumps
R. El-Assar and M. Lenhard
44(1983)91-97

Corrosion problems caused by bromine formation in additive dosed MSF desalination plants
W.S.W. Lee, J.-W. Oldfield and B. Todd 44(1983)209-221

Corrosion tests of a range of materials in three MSF plants
T. Hodgkiess, W. T. Hanbury and M. H. Hejazian 44(1983)223-232

Studies on stainless steels for service in desalination plants
S. Nordin 44(1983)255-263

Simulation of MSF desalination plants
A. M. Omar 45(1983)65-76

Computer code for optimizing MSF desalination plant
H. T. A. El-Dessouky and G. M. R. Assassa 45(1983)111-112

Process and layout design of a combined MSF/VTE plant
J. Hapke and B. Uckermann
45(1983)113-114

Dynamic stability of MSF desalination plants
G.M.R. Assassa and H.T.A. El-Dessouky 45(1983)133

Construction and commissioning of 6 x 23,000 t/d MSF plant, Al Jobail Phase 1
D.S. Khumayyis and M. Ohtani
45(1983)155-165

Experience with 4 x 5 Migd MSF plant in Qatar: Report on construction material performances
M. Bertuzzi, G. D'Angelo and E. Moretti 45(1983)175-181

The reliability assurance survey: An initial step towards increased operating reliability at existing desalination facilities
R.E. Bailie 45(1983)185-194

Results of four years of operation at high temperature (150°C) of Bari's desalination plant
A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
45(1983)197-207

Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants
R. Zannoni, A. de Maio, G. Odone and G. Coliva 45(1983)337-344

Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia
F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani
45(1983)345-355

Operation experience with solar powered 10 m^3 per day MSF-plant in Kuwait and results of upscaling experiments
R. Kriesi and M. Posnansky
45(1983)371

An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV
J. Reverter, M. Ribeaud and M.P. Savage 47(1983)17

The application of a high temperature scale control additive in a Middle East MSF plant
G. F. Casini 47(1983)19-24

A model for the fouling of MSF plants based on data from operating units
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 47(1983)37-47

Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants
R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori 47(1983)93-102

Applied similarity criteria in the scale-up from existing to large MSF desalination plants
D. Barba, S. Arazzini and G. Migliorini 49(1984)1-15

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady
49(1984)271-292

Rehabilitation of an uneconomic MSF plant in the Canary Islands, Spain
J. Guzman 52(1984)75-85

An operating philosophy to optimize the output, plant life and economy of MSF plants operating at high temperatures
K.G. Cooper, L.G. Hanlon and R.E. Talbot 54(1985)291-299

The Makkah-Taif MSF desalination plant
M.F. Al-Ghamdi, C.H. Hughes and S. Kotake 66(1987)3-10

Field experiences on large MSF desalination plants designed to operate with two different top brine temperatures
A. Massarani 66(1987)43-57

Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature
R. Zannoni, I. Resini and R. Lucenti 66(1987)109-118

Computer-based performance evaluation of dual-purpose steam turbine/multistage flash desalination plants
F.G. Abbosh and I. Kamal 66(1987)127-140

Vapour side corrosion in MSF plants
J. W. Oldfield and B. Todd 66(1987)171-184

Copper alloy tube for MSF desalination plant: Some practical considerations
N.M. Valota 66(1987)245-256

Water production in Kuwait - Its management and economics
A.M.R. Al-Marafie and M.A. Darwish 71(1989) 45-55

Rehabilitation of desalination plants at Sitra Power Station, Bahrain
K. Borashid and K. Kato 73(1989)277-293

A recarbonation process for treatment of distilled water produced by MSF plants in Kuwait
H.E. Al-Rqobah and A. Al-Munayyis 73(1989)295-312

Studies on MSF desalination - Process design, construction and startup of a prototype MSF plant in India
P.K. Tewari, M.S. Hanra, R.K. Verma and M.P.S. Ramani 73(1989)359-370

Experience with desalination plants in Libya
A.I. El-Twaty and S.A. Karshman 73(1989)385-396

Operating experience of MSF desalination plant at the Abu Kammash chemical complex
N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni 73(1989)417-428

Trihalomethanes (THMs) formation in multi-stage flash (MSF) distillation plants
N.A. Latif, F.M. Al-Awadi and B.A. Colenutt 74(1989)205-226

Monitoring of organic compounds in feed and product water samples from MSF plants in the eastern coast of Saudi Arabia
P.C. Mayankutty, A.A. Nomani and T.S. Thankachan 74(1989)243-257

Simulation of MSF desalination plants
I.S. Al-Mutaz and M.A. Soliman 74(1989)317-326

One year operational experience on the process control system at UANE MSF Desalination Plant
S. Rebagliati, E. Ghiazza and K.S. Abueida 75(1989)149-169

Technical and economical comparison between large capacity MSF and RO desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 76(1989)281-304

Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf
H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin 78(1990)327-341

Distillate purity from MSF: The theoretical design and a real case behaviour
C. Sommariva, R. Borsani and A. Tasca 81(1991)309-320

Second law analysis of multieffect and multistage flash desalination plants
M.S. Al-Ahmad and M.A. Darwish 81(1991)449

Second-law analysis of recirculating multi-stage flash desalting system
M.A. Darwish, N.M. Al-Najem and M.S. Al-Ahmad 89(1993)289-309

Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation
A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva 92(1993)21-41

Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control
A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta 92(1993)43-55

Mathematical modelling and expert systems integration for optimum control strategy of MSF desalination plants
B. Fumagalli and E. Ghiazza 92(1993)281-293

Knowledge based systems for desalination processes
A. Kurdali, A. Woldai and D.M.K. Al-Gobaisi 92(1993)295-307

Experience of using the neural network approach for identification of MSF desalination plants
A.F. Abdulbary, L.L. Lai, D.M.K. Al-Gobaisi and A. Husain 92(1993)323-331

Optimization of sponge ball cleaning system operation and design in MSF plants
F. Al-Bakeri and H. El Hares 92(1993)353-375

Some design and monitoring criteria for large/medium MSF plants
A. Massarani and F. Fusetti 92(1993)377-388

On-load tube cleaning systems and debris filters for avoidance of micro- and macrofouling in MSF desalination plants
H. Böhmer 93(1993)171-179

Performance of materials used for the venting system in WED's desalination plants (MSF)
E.A. Al-Sum, A. Al-Radif and S. Aziz 93(1993)517-527

Role of evaporative and membrane desalination technology in solving drinking water problems in India
H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra 96(1994)249-258

12 migd multistage flash desalination plant. A challenge for the next years
R. Borsani, P. Bozzini, A. Germanà, P. Peluffo and A. Al Radif
96(1994)325-339

Seawater desalination plant "Sirte" - an example for an advanced MSF design
G.F. Tusel, R. Rautenbach and J. Widua 96(1994)379-396

Selection of materials for Taweelah "B" MSF desalination plant project (6x10-12.7 migd)
A. Al-Radif, R. Borsani and H. Sultan
97(1994)3-16

Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi
E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal 97(1994)109-119

Solutions for problems in corrosion and environmental impact on 2x3000 m^3/d MSF desalination plants
Xu Kejun, Wang Schichang and Yang Yaozhong 97(1994)159-164

Materials performance and failure evaluation in SWCC MSF plants
A.U. Malik, P.C. Mayan Kutty, I.N. Andijani and S.A. Al-Fozan
97(1994)171-187

Carry over of some high molecular weight organics from seawater to MSF distillates
P.C. Mayan Kutty, A.A. Nomani and T.S. Thankachan 97(1994)401-413

Mathematical modelling and expert system integration for optimum control strategy of MSF desalination plants
B. Fumagalli and E. Ghiazza
97(1994)547-554

Modelling and simulation of a multistage flash (MSF) desalination plant
A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan, H. and P.B. Deshpandey 97(1994)555-586

A quarter-century of seawater desalination by large multistage flash plants in Abu Dhabi (Plant performance analysis, assessment, present efforts toward enhancement and future hopes)
D.M.K. Al-Gobaisi 99(1994)483-508

Dynamic behavior of MSF desalination plants
N.H. Aly and M.A. Marwan
101(1995)287-293

Improvement of operation and availability of MSF plants
H. Krause and A. Hassan
107(1996)59-74

Solving equations simulating the steady-state behavior of the multi-stage flash desalination process
H. El-Dessouky and S. Bingulac
107(1996)171-193

Environmental aspects of corrosion in MSF and RO desalination plants
J.W. Oldfield and B. Todd
108(1996)27-36

Multicomponent systems

Large-scale seawater desalination in the Netherlands
P.R. Bom 5(1968)75-81

Reverse osmosis in multicomponent systems
S. Srinivasan and C.Tien
5(1968)139-156

A simplified method for the prediction of concentration polarization in reverse osmosis operation for multicomponent systems
S. Srinivasan and C. Tien
7(1970)133-145

Cation exchange kinetics on carboxylic acid resins in a multicomponent system
H—Me^{+}—Me^{2+}
T. Herrera, Z. Matejka and J. Eliasek
48(1983)161-169

Waste water treatment using reverse osmosis: Real osmotic pressure and chemical functionality as influencing parameters on the retention of carboxylic acids in multi-component systems
V. Tödtheide, C. Laufenberg and B. Kunz 110(1997)213-222

Multieffect distillation, see Distillation, multieffect

Multieffect evaporation

Multiple effect flash (MEF) evaporator
L.A. Bromley and S.M. Read
7(1970)343-391

Large long-tube vertical evaporators for sea water distillation
M. Schaal, F.S. Aschner and D. Hasson 10(1972)67-93, Err. 10(1972)220

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Solar distillation: The solar-driven case
J.P. Gerofi, G.G. Fenton and E. Mannik 39(1981)83-94

Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller
J.C. Deronzier, F. Lauro and R. Ployart 39(1981)117-123

Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant
T.R. Blake and G. Willocks
39(1981)311-322

Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation
R. Rautenbach and B. Arzt
44(1983)121-128

Computer supervisory control of multi stage flash evaporator
M. H. A. El-Saie, M. F. Farrag and M. H. Erfan 55(1985)107-118

Control in multiple effect evaporator plants
F.C. Standiford 59(1986)263-292

Synthesis of thermal desalination processes. Part II. Multi effect evaporation
N.J. Scenna 64(1987)123-135

The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures
M.A. Darwish, N.M. Al Najem, T. Froment and J. de Gunzbourg
74(1989)277-288

Simulation of the steady-state operation of a multi-effect stack seawater distillation plant
A.M. El-Nashar and A.A. Qamhiyeh 101(1995)231-243

Addition of dimpled plate type effects to existing MED plant increases capacity, performance ratio and scale control
C.L. Elmore 102(1995)265-268

Multieffect stack

A study of a new thermal vapor compression/multi-effect stack (TVC/MES) low temperature distillation system
S.E. Aly 103(1995)257-263

Multieffect stack evaporators

Studies on the behaviour of high performance multiple-effect-stack processes
R. Rautenbach and J. Gebel 65(1987)75-85

Performance of the solar desalination plant at Abu Dhabi
A.M. El-Nashar 72(1989)405-424

Simulation of the performance of MES evaporators under unsteady state operating conditions
A.M. El-Nashar and A. Qamhiyeh 79(1990)65-83

Multipurpose plants

Analysis of the technical and economic data of multi-purpose nuclear plants *(in German)*
Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski 5(1968)201-216

Prorating methods for coupled production of power, fresh water and energy for district heating
B. Kunst and J. Hapke 26(1978)309-317

An integrated self sufficient multipurpose plant for seawater desalination
K. Kuenstle and G. Brunner 39(1981)459-474

Milk whey treatment with recovery of valuable products
G. Di Giacomo, G. Del Re and D. Spera 108(1996)273-276

Municipal desalination plant

Operating experiences of a 15,000 cubic meter per day municipal desalting plant at Corfu, Greece
J.W. Arnold 30(1979)145-153

Municipal desalination plant, Reverse osmosis

Design parameters and operation of small and medium size municipal reverse osmosis in North America
E.W. Johansen, Jr. and D.C.M. Crabbe 20(1977)53-60

Reclamation of municipal sewage by reverse osmosis
H. Tsuge and K. Mori 23(1977)123-132

Application of reverse osmosis to reclamation of municipal wastewaters
C. K. Wojcik, J. G. Lopez and J. W. McCutchan 32(1980)353-364

Advanced reverse osmosis process with automatic sponge ball cleaning for the reclamation of municipal sewage
C. Yanagi and K. Mori 32(1980)391-398

Circumstances leading to the first municipal reverse osmosis desalination plant
S. Loeb 50(1984)53-58

Municipal wastewater renovation by reverse osmosis. State of the art
A.H. Ghabris, M. Abdel-Jawad and G.S. Aly 75(1989)213-240

Reverse osmosis in United Kingdom. Municipal applications
D.J. Spurr 82(1991)385-386

Virginia's first municipal reverse osmosis facility
M.A. Thompson 87(1992)181-191

Municipal water supply

Membrane softening: The concept and its application to municipal water supply
W.J. Conlon, C.D. Hornburg, B.M. Watson and C.A. Kiefer 78(1990)157-176

Nanofiltration

The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water
A.E. Simpson and C.A. Buckley 67(1987)409-429

The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping
A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley 67(1987)455-465

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder 71(1989)233-245

Low-energy membrane nanofiltration for removal of color, organics and hardness from drinking water supplies
B.M. Watson and C.D. Hornburg 72(1989)11-22

Separation potential of nanofiltration membranes
R. Rautenbach and A. Gröschl 77(1990)73-84

Slow sand/nanofiltration treatment for secondary treated wastewater
C.B. Cluff 88(1992)53-67

Trace element removal from ash dam waters by nanofiltration and diffusion dialysis
R. Simons 89(1993)325-341

Effects of surface force interactions on an NF/UF membrane
B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson 90(1993)107-118

Waste water treatment by a combination of bioreactor and nanofiltration
R. Rautenbach and R. Mellis 95(1994)171-188

Nanofiltration of salt solutions and landfille leachate
K. Linde and A.-S. Jönsson 103(1995)223-232

Retention of ions in nanofiltration at various ionic strength
B. Chaufer, M. Rabiller-Baudry, L. Guihard and G. Daufin 104(1996)37-46

Salt concentration and recovery from aqueous solutions using pressure-driven membrane processes
F.N. Karelin, A.A. Askerniya, M.L. Gril and O.F. Parilova
104(1996)69-74

Design of membrane separation plants using a module data base
R. Günther and J. Hapke
104(1996)119-128

Solute-solute separations of binary-solute solutions using formed-in-place membranes
D. Szaniawska and H.G. Spencer
105(1996)21-24

Mathematical model of nanofiltration systems
W.G.J. van der Meer, C.W. Aeijelts Averink and J.C. van Dijk
105(1996)25-31

New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration
M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner 105(1996)57-61

High-pressure reverse osmosis and nanofiltration, a "zero discharge" process combination for the treatment of waste water with severe fouling/scaling potential
R. Rautenbach and T. Linn
105(1996)63-70

Nanofiltration of highly colored raw water for drinking water production
B. Ericsson, M. Hallberg and J. Wachenfeldt 108(1996)129-141

Production of quality drinking water with membranes
A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov 108(1996)167-170

Nanofiltration in the utilization of coal-mine brines
M. Turek and M. Gonet
108(1996)171-177

Quality improvement of recycled chromium in the tanning operation by membrane processes
A. Cassano, E. Drioli, R. Molinari and C. Bertolutti 108(1996)193-203

Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis
R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz 108(1996)247-253

Nanofiltration membranes

The effect of pH on the nanofiltration of the carbonate system in solution
A.E. Simpson, C.A. Kerr and C.A. Buckley 64(1987)305 -319

Nanofiltration membranes broaden the use of membrane separation technology
J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
70(1988)77-88

Separation potential of nanofiltration membranes
R. Rautenbach and A. Gröschl
77(1990)73-84

Slow sand/nanofiltration treatment for secondary treated wastewater
C.B. Cluff 88(1992)53-67

Characterisation of nanofiltration membranes for the separation of aqueous dye-salt solutions
P. Schirg and F. Widmer
89(1992)89-107

Surface water potabilisation by means of a novel nanofiltration element
J.-P. De Witte 108(1996)153-157

Natural convection

Natural convection effect in reverse osmosis
S. Srinivasan and C. Tien
10(1972)273-286

Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off
M. Metayer, C. Bourdillon and E. Selegny 13(1973)129-146

A buoyancy-dominated desalination unit
C.A. Hieber 15(1974)59-91

Nernst-Planck equations

Some remarks on the integration of the extended Nernst-Planck equations in the hyperfiltration of multicomponent solutions
L. Dresner 10(1972)27-46

Transfer of H_2SO_4, Na_2SO_4 and $ZNSO_4$ by dialysis through an anion exchange membrane
A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach 101(1995)39 -46

Neural networks

Neural networks for the identification of MSF desalination plants
R. Selvaraj, P.B. Deshpande, S.S. Tambe and B.D. Kulkarni
101(1995)185-193

Neutron-capture gamma-ray technique

Neutron-capture gamma-ray technique for scale identification inside pipes
S. Abdul-Majid and U. Dawood
75(1989)199-210

Nickel

Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes
G. Mossa, R. Passino and M. Pegoraro
34(1980)57-67

Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid
Q.T. Nguyen, Y. Jyline and J. Neel
36(1981)277-283

Nickel alloys

Corrosion resistance of stainless steels and nickel alloys in artificial sea water
M. Pötzschke and M.B. Rockel
44(1983)295-305

Electrochemical behavior of a high strength nickel-based alloy in H_2SO_4
K. Habib 93(1993)537-544

Nitrate

Chemical and physical degradation of some cation-exchange resins used in nitrate recovery from wastewaters
L. Pawlowski, J. Barcicki and T.Z. Winnicki 28(1979)243-252

Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis
G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
47(1983)267-274

The use of reverse osmosis for removal of nitrate in drinking water
H. Bilidt 53(1985)225-230

Removal of nitrate ions acidic wastewater by Donnan dialysis involving tabular exchange membranes
G. Wisniewska and T. Winnicki 56(1985)161-173

Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs
R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes 65(1987)241-258

Nitrate removal by electrodialysis for brewing water
K. Kneifel, G. Lührs and H. Wagner 68(1988)203-209

Elimination of nitrate from drinking water by electrochemical membrane processes
K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach 101(1995)123-131

Cost comparison of treatment alternatives for the removal of nitrates and DBCP from Southern California groundwater
W.J. Conlon, F.A. Blandon and J. Moody 103(1995)89-100

Nitrate removal and water quality improvements with reverse osmosis for Brighton, Colorado
J.N. Cevaal, W.B. Suratt and J.E.Burke 103(1995)101-112

Development of electrodialysis with bipolar membrane for the treatment of concentrated nitrate effluents
S. Graillon, F. Persin, G. Pourcelly and C. Gavach 107(1996)159-169

Nitrogen removal

Reverse osmosis of wash waters from simultaneous SO_2/NO_x wet removal technique of flue gas
W. Thamm and E. Staude 61(1987)27-37

Process options for nitrogen and phosphorus removal in domestic wastewater
B. Ericsson 98(1994)105-118

Domestic wastewater reuse using a submerged membrane bioreactor
H. Kishino, H. Ishida, H. Iwabu and I. Nakano 106(1996)115-119

Non-condensable gases

On some aspects of flash distillation without metallic interfaces
A. Kogan and M. Victor 4(1968)80-93

Condensation of steam in a channel flow in the presence of noncondensable gases with surface resistance
A. Tamir and Y. Taitel 8(1970)293-309

Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface
D. Pnueli and G. Iddan 9(1971)285-294

The effect of air on condensation on a roped tube
J. Cunningham and A. Holmes 38(1981)65-74

Influence of noncondensables on modern thermal desalination
J. Bharadwaj and V.R. Raghavan 49(1984)357-365

A model for stagewise calculation of non-condensable gases in multi-stage evaporators
A. Seifert and K. Genthner 81(1991)333-347

A calculation method for condensers in multi-stage evaporators with non-condensable gases
K. Genthner and A. Seifert 81(1991)349-366

Non-condensible gases

The effects and limitations issued by non-condensible gases in sea water distillers
K. Genthner, A. Gregorzewski and A. Seifert 93(1993)207-234

Non-electrolytes

Rapid filtration of non-electrolytes by electroosmosis
A. Zelman, D. Walsh, H. Wayt and D. Gisser 25(1978)253-261

Hyperfiltration of nonelectrolytes: Dependence of rejection on solubility parameters
H.G. Spencer 28(1979)117-124

Non-equilibrium analysis

Formulas for calculating the approach to equilibrium in open channel flash evaporators for saline water
N. Lior 60(1986)223-249

Numerical predictions of evaporative behaviors of horizontal stream inside a multi-stage-flash distillator
K.W. Seul and S.Y. Lee 79(1990)13-35

Effect of liquid level on flow behaviors inside a multi-stage flash evaporator — A numerical prediction
K.W. Seul and S.Y. Lee 85(1992)161-177

Theoretical and experimental study in membrane distillation
F.A. Banat and J. Simandl 95(1994)39-52

Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place zirconium (IV) hydrous oxide-polyacrylate membranes in lactose-water solutions
D. Szaniawska and H.G. Spencer 95(1994)121-137

Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place Zr(IV) hydrous oxide-PAA membranes. II. NaCl-water solutions
D. Szaniawska and H.G. Spencer 101(1995)31 -38

Improved equations for the calculation of non-equilibrium temperature loss in MSF
R. Rautenbach, S. Schäfer and S. Schleiden 108(1996)325-333

Nuclear desalination

Nuclear energy for desalination
D.B. Brice and D.S. Briggs 2(1967)89-98

Nuclear desalination program at the Oak Ridge National Laboratory
R.P. Hammond 3(1967)243-251

Nuclear desalination. Symposium held in London, October 30, 1967
P.A. Trevalion 3(1967)392-395

Practical considerations in desalination and energy development and utilization (.SM-113/70) .
J. T. Ramey 5 suppl.(1969)3-16

The United Kingdom approach to desalination and nuclear power (SM-l 13 /71)
H. Kronberger 5 suppl.(1969)17-23

Le programme francais dans le domaine du dessalement de l ' eau de m er (SM - l 13 / 7 2) .
P. Balligand 5 suppl.(1969)25-29

United Kingdom desalination research and development program (SM-113/50)
H. Kronberger 5 suppl.(1969)33-40

Fifteen years of progress - A review of the United States Desalting Program (SM-113/53) .
M.N. Edwards 5 suppl.(1969)41-49

Role of nuclear energy in desalination - A review of the United States Atomic Energy Commission' s desalination development program, problem areas, and potential (M-113/fi)
W.A. Williams, Jr., J.O. Roberts and R.O. McFarren 5 suppl.(1969)51-61

Technical aspects of desalination in Japan - present and future (SM-113/57)
S. Ishizaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna 5 suppl.(1969)63-73

Some aspects of multistage-flash-distillation plant operation and construction (SM-l 13 /43) .
W.R.Querns 5 suppl.(1969)77-91

Combination of a sea-water flash-distillation plant with a nuclear plant arising from experience gained with conventional installations (SM-113 /8)
H. Laban and W. Hohenhinnebusch 5 suppl.(1969)93-109

Dessalement de l'eau de mer et production d'energie electrique: résultats d'exploitation des installations de l'Italsider à Tarente (SM- 113 /3)
G. Carolei, C. Franzosi and M. Jemma 5 suppl.(1969)111-125

Construction and initial operation of a test module for a 50-MGD desalination plant (SM 113/54)
W.A. Gardner 5 suppl.(1969)127-143

United Nations survey of desalination-plant operation (SM-113/69)
United Nations (Presented by P. A. Mawer) 5 suppl.(1969)145-165

The Bolsa Island dual-purpose nuclear power and desalination project (SM-113/39)
R.W. Durante 5 suppl.(1969)169-187

United States-Mexico-IAEA study of large nuclear-power and water-desalination plants for south-west United States of America and northern Mexico (SM-113/38)
J. A. Huntcr 5 suppl.(1969)189-206

Desalting- saline irrigation-water supplies for agriculture, A case study Lower Colorado river Basin, USA (SM-113/37) .....
J. T. Maletic, M.S. Sachs and E.S. Krous 5 suppl.(1969)207-224

Desarrollo económico patencial de la zona sureste de Almería basado en la instalación de una planta desaladora de doblo uso (SM-113/55)
J. Mac-Veigh Alfós 5 suppl.(1969)225-238

Las Palmas 20,000-m3/d flash-distillation dual-purpose water and power plant (SM-113/5G)
J. Suárez and M.H.A.El-Saie 5 suppl.(1969)239-260

Esbldio de viabilidad de una central nuclear de doblo uso para la zona Catalana (SM- 113 /58)
F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra 5 suppl.(1969)261-276

Aperçu sur le marche de 1' eau dessa1ee en France pour de petites unités (SM-113/21)
Francoise Dutheil et M. Malissen 5 suppl.(1969)277-287

Alimentation en chaleur d' une installation de dessalement par un réacteur nucléaire a fluide organique à fin unique et de faible puissance (SM- 113 /5)
L. Biondi, E, Crispino, R. DiMenza, F. Gazzabin, E. Merli, R. Negrini, A, Potestà and G. Vachelli 5 suppl.(1969)291-295

Conception et implantation du réacteur ROVI pour le dessalement de 1' eau de mer (SM-1 l3/l)
A. Cassinari, A. Gandellini and A. Vaudo 5 suppl.(1969)297-310

Le reacteur ROVI: choix de 1 element combustible et problemes connexes (SM-113/2
L. Biondi, D. Panzeri and L. Pierazzi 5 suppl.(1969)311-318

Pressurized-water reactors for natural and enriched uranium SM-113/7)
B.C. Drude and F.H. Rohl 5 suppl.(1969)319-330

The steam-generating heavy-water reactor in dual-purpose applications SM-113/45)
S. Chambers 5 suppl.(1969)331-340

Some features required of nuclear reactor for dual- purpose water/power production (SM- 113 /49)
H. Kronberger 5 suppl.(1969)341-349

The sodium-cooled fast-breeder reactor as a heat source for desalination plants (SM- 113/49)
R.A. Langley, Jr. and R. L. Clark 5 suppl.(1969)351-363

Application of the HTGR-CCGT system in dual-purpose nuclear power plants (SM-113/14)
J. Halzl, Z. Szabo, L. Szücs and M.Torma 5 suppl.(1969)367-383

Optimum system for satisfying a given demand on fresh water and electric power (SM- 113 / 16)
L. Heller and L. Szücs 5 suppl.(1969)385-393

Desalination plants using higher steam pressures (M-113/31)
W, Pechenick and C. E. Ennis 5 suppl.(1969)397-405

Combination of a high-temperature reactor with a closed-cycle gas-turbine and desalination plant (SMA113/6)
A. Ehret and H. Sonnenschein 5 suppl.(1969)407-417

Optimization study on the coupling of a low-temperature ROVI reactor with a desalination plant (SM-113/4)
G. Nebbia, R. Di Menza and L.Pierazzi.. 5 suppl.(1969)419-424

Etude d'usines de dessalement associées à un réacteur nucléaire du type uranium naturel-gaz-graphite et fonctionnant suivant différents procédés de distillation (SM-113/18)
P. Ball1gand, .J.P. Agostini, J. Huyglle, F. Lauro and P. Vignet 5 suppl.(1969)425-440

The .selection of nuclear power and desalination plants for augmenting existing water reserves (SM-113/51)
E. F. Masters, H. A. Matthews and F. K, Orde 5 suppl.(1969)441-462

Production combinee d' electricite et d' eau dessalee a l' aide de reacteurs Vulcain et d'unites LTV: Aspects technico-economiques d'installations. de moyenne puissance (SM-113/17)
P. M a l d a g u e, Cl . Deschamps, W .Debay, A. Paquet, W. Bongard, and B. Cox 5 suppl.(1969)463-479

Optimum brine temperature in nuclear and fuel-operated power plants coupled with multi-stage flash evaporator (SM-113/9)
B. Kunst 5 suppl.(1969)483-494

High-temperature desalination plants for nuclear-power stations(SM-113/26)
R.A. Tidball and J. G. Gaydos 5 suppl.(1969)495-506

Optimization of' multi-stage-flash evaporation plants (SM-113 /G7)
M. A. Mandil and E.E. Abdel-Ghafour 5 suppl.(1969)507-524

Current and projected technology of flash-type sea-water desalination plants (SM-113/29)
A. B. Steinbruchel 5 suppl.(1969)525-534

The characteristics of dual-process distillation plant combining vapour compression and multi-stage-flash evaporators (SM -113 /44)
F. C. Wood and R. Herbert 5 suppl.(1969)535-555

Conceptual design studies of a dual-purpose and a vapour-compression water-only 750-MGD plant (SM-113/33)
. S. J. Senatore and E. N. Sieder 5 suppl.(1969)557-568

Nuclear single-purpose multi-stage-flash with vapour compression (SM- 113 /52)
R. Starmer and F. Lowes 5 suppl.(1969)569-582

The economic development of nuclear desalination plants in water and power supply systems (SM-113/35)
N. A . El - Ramly and J. M . English 5 suppl.(1969)585-594

Integrating dual-purpose plant for power and water production into an existing electricity supply system (SM-113/42)
K. Goldsmith 5 suppl.(1969)595-604

Les conditions de concurrence entre le production d'eau par dessalement et les ressources naturelles (SM-113/19)
J. Gaussens 5 suppl.(1969)605-615

Desalination in conjunction with water supplies (SM- 113 /48)
M. J. Burley and J. C. Clark 5 suppl.(1969)617-630

Principaux facteurs d'incertitude de la rentability de l'energie nueleaire pour la produetion d' eau dessallee (SM-113/20)
L. Thiret and P. Lièvre 5 suppl.(1969)631-643

Economic considerations of a nuclear energy facility for the production of chemicals from sea salt in developing countries (SM-113/13)
P.M. Terlizzi 5 suppl.(1969)645-657

Desalted water and the possibility of its use in agriculture (SM -113 /68)
Y. Barrada 5 suppl.(1969)659-680

A conceptual nuclear energy centre for the co-production of agricultural chemicals and desalted water to serve a pilot food factory (SM- 113 /24)
S. A. . Bressler and E. F. . Miller 5 suppl.(1969)683-695

Etude economique d' installations a fins multiples: produetion d' electricite, dessalement de 1' eau de mer et industries chimiques (SM-113/22)
R. Douvry and P. E. Dorges 5 suppl.(1969)697-711

The agro-industrial complex (SM-113/32)
J. W. Michel 5 suppl.(1969)713-744

Dual-purpose nuclear power plant incorporating the production of salt (SM-113/11)
H. Kakihana and Y. Tsunoda 5 suppl.(1969)745-755

Preliminary study of a desalination-power-industrial complex in Israel (SM- 113 /10
J. Adar. D. Caplin, G. Frank and O. Tavory 5 suppl.(1969)757-771

Application of nuclear reactors to the alumina and aluminum industry (SM-113 / 15)
J. Halzl, Gy.' Sigmond, Z. Szabó and M. Torma 5 suppl.(1969)773-783

Technology needed for the economic use of desalted water in agriculture (SM- 113 /27)
R. P. Hammond and T. D. Anderson 5 suppl.(1969)785-796

Organization of large desalination-plant studies (SM-113/30)
C.E. Ennis and W. Pechenick 5 suppl.(1969)805-813

Corrosion resistance of titanium and its alloys in primary water and hot brine environments (SM- 113 /25)
N. G. Feige 5 suppl.(1969)815-827

Development of technology applicable to 50-MGD and larger sea-water distillation plants (SM-113/34)
E.N. Sieder and I. Spiewak 5 suppl.(1969)829-846

The architect-engineer-constructor' s role in future nuclear desalination projects (.M-113/41)
P..J. Selak, J. Finke and A.L. Lindsay 5 suppl.(1969)847-858

Some basic aspects of the flash-distillation process (SM-113/46)
A.N. Dickson and J. K. Bradie 5 suppl.(1969)859-877

Prevention of scale and corrosion on flash evaporators (SM-113/12)
N, Noguchi, S. Sato, T. Imatake, T. Matsuhara and T. Hamada 5 suppl.(1969)879-893

Etude du comportement de divers materiaux dans 1' eau de mer jusqu'a 150°C (SM-113/23)
G. Boisde. H. Coriou. L. Grall. C. Mahieu and M. Pelras 5 suppl.(1969)895-914

French nuclear desalting programme *(in French)*
P. Balligand 6(1969)287-291

Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East
S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny 20(1977)257-266

Nuclear desalination for Saudi Arabia: An appraisal
A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri 25(1978)163-185

Investigation of water desalination by distillation technique
N.M. Sinev, V.G. Shatsillo, V.B. Chernozubov, A.A. Samarkin and J.S. Baranov 45(1983)315-320

A systematic approach for detection of malfunctions in equipment of nuclear desalination plants during operation
I.I. Kutbi 81(1991)451-481

Need and feasibility of nuclear desalination for low cost potable water production
A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick 81(1991)505-523

Floating nuclear desalination plant AFWS-40
V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov 89(1992)21-32

Pressurized heavy water reactor desalination in the Indian context
P.K. Tewari, R.K. Verma and M.P.S. Ramani 95(1994)299-306

Features of nuclear desalination systems for Saudi Arabia
I.I. Kutbi and K.M. Al-Sulaiman 97(1994)327-337

CANDESAL: A Canadian Nuclear Desalination System
J.R. Humphries and E. Middleton 99(1994)329-344

Human welfare by nuclear desalination using super-safe, small and simple reactors (4S)
S. Hattori and A. Minato 99(1994)345-365

Nuclear energy

Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization
L. T. Fan, C. L. Hwang, N. C. Pereira, L. E. Erickson and C. Y. Cheng 11(1972)217-238

Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis
L.E. Stamets, L.T. Fan and C.L. Hwang 11(1972)239-254

Desalination using the Canadian SLOWPOKE energy system
J.S. Glen and D.S. McDougall 64(1987)183-192

Perspectives of nuclear energy for seawater desalination
J. Kupitz and M.J. Crijns 99(1994)299-327

Nuclear magnetic resonance

Study of the structure of the polyethylene-styrene copolymer by NMR
Jiang Weida, Li Yebing and Ye Hongwei 62(1987)373-376

Study of the structure of the polyethylene-styrene copolymer by NMR
Jiang Weida, Li Yebing and Ye Hongwei 62(1987)373-376

Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolef in) membrane by pervaporation method
I. Terada, M. Nakamura and M. Nakao 70(1988)455-463

The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence)
Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu 85(1992)297-320

Nuclear plants

Economical evaluation of organic moderated and cooled reactors (ROVI) designed to produce vapor for desalting plants
L. Lazzarino and R. Di Menza 2(1967)220-226

Use of nuclear plants in the desalination of sea water *(in German)*
L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow 4(1968)103-118

Selection of parameters of an atomic energy plant with high productivity distillation of sea water
L.S. Sterman, N.A. Mozharov and V.V. Gubenko 5(1968)95-106

Analysis of the technical and economic data of multi-purpose nuclear plants *(in German)*
Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski 5(1968)201-216

Nuclear industrial desalination plant with fast neutron reactor at Shevchenko
E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S.

Methodological aspects of technico-economic parameters of nuclear desalination plants
Y.I. Koryakin, A.A. Loginov and V.A. Chernyaev 7(1970)323-342

Coupling of standard condensing nuclear power stations to horizontal aluminium tubes multieffect distillation plants
J. Adar 20(1977)143-154

The Bushehr 200,000 m^3/d desalination plant
M. Edalat, J. Entessari and H. Hamidi 26(1978)127-140

Engineering management of nuclear desalination plants — A case study, Saudi Arabia
A.F. Abdul-Fattah and A.A. Husseiny 27(1978)283-331

Thermos reactor, energy source for desalination *(in French)*
B. Lerouge and F. Lauro 30(1979)571-579

Water requirements of an inland nuclear power station. Engineering and economic aspects
A. Beck and M. Schaal 40(1982)19-24

Selection for desalination processes for dual-purpose nuclear plants
I. I. Kutbi, Z. A. Sabri and A. A. Husseiny 58(1986)113-134

Nuclear reactors

Economical evaluation of organic moderated and cooled reactors (ROVI) designed to produce vapor for desalting plants
L. Lazzarino and R. Di Menza 2(1967)220-226

Economical evaluation of organic moderated and cooled reactors (ROVI) designed to produce vapor for desalting plants
L. Lazzarino and R. Di Menza 2(1967)220-226

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Economic evaluation of using small sized nuclear reactors for seawater desalination
P. Glueckstern and Y. Kantor 22(1977)101-110

Human welfare by nuclear desalination using super-safe, small and simple reactors (4S)
S. Hattori and A. Minato 99(1994)345-365

The 200 MW nuclear heating reactor and its possible application in seawater desalination
Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang 99(1994)367-381

Nucleation

Study of the mechanism of flashing flow by experiment and theoretical analysis
R.I. Hawes and D.C. Leslie 2(1967)329-336

The use of electrolysis to generate "flashing nuclei"
J.C. Drake 6(1969)335-336

Nucleation in the flash boiling of sea water
W.T. Hanbury and W. McCartney 14(1974)217-228

The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers
S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim 17(1975)3-16

The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence)
Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu 85(1992)297-320

Ocean thermal energy

Ice cooled ocean thermal energy conversion plants
D.J. DeMarle 29(1979)153-163

An introduction to new energy sources for desalination
O.K. Buros 39(1981)37-41

Some investigations on the possibility of using ocean thermal gradient (OTG) for seawater desalination
G. Damy and J. Marvaldi 67(1987)197-214

Off-shore plants

Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California
W.K. Davis, L. Galstaun and C. Sharpf 2(1967)227-233

Off shore sea water reverse osmosis plants
H. Lerat 19(1976)201-210

Off-shore inverse osmosis without chemical pretreatment: balance of years of experience and extension to land-based units *(in French)*
H. Lerat 32(1980)201-210

Ship-mounted seawater 2500 m^3/d flash evaporation plant for Abu Dhabi. Economical drinking water for arid regions
K. Wangnick 41(1982)171-180

Ohm scale polarization

An electrical analogue for electrodialysis
G. Belfort and G.A. Guter 5(1968)267-291

Direct condensation of steam on a modified oil coolant
J.R. Maa and K. Hickman 10(1972)95-111

Oil

The production of boiler feedwater from field formation water In enhanced oil recovery (EOR) systems
K. Wangnick 56(1985)143-160

An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage
Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun 62(1987)323-328

Ultrafiltration applications
A.-S. Jönsson and G. Trägårdh 77(1990)135-179

Evaporation of olive oil mill vegetation waters
G. Di Giacomo, V. Brandani and D. Del Re 81(1991)249-259

Condensate re-use by ultrafiltration oil removal
V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev 83(1991)195-207

Desalting oil field by-product water
J.W. Lewis, C.M. Ferrara and I.C. Watson 87(1992)229-247

Mechanical vapour compression to treat oil field produced water
A. Koren and N. Nadav 98(1994)41-48

Production of heavy oil from sewage sludge by direct thermochemical liquefaction
S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama 98(1994)127-133

Process factors during removal of oil-in-water emulsions with cross-flow microfiltration
A.B. Koltuniewicz and R.W. Field 105(1996)79-89

Operational aspects

Energy consumption and operational aspects of on load ball cleaning systems
K. Eimer 38(1981)201

A new idea for training operators
A. De Maio, F. Fioravanti and G. Odone 39(1981)483-487

Operating experience of MSF units in Saudi Arabia
N. Nada 41(1982)57-69, Err. 41(1982)337

Operational data analysis of MSF desalination plants. A case study of Jeddah I
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)163-197

Reverse osmosis in seawater concentration
D. Sambrailo, B. Kunst and H. Ivekovic 46(1983)125-133

Seawater desalination by reverse osmosis. Plant design, performance data, operation and maintenance (Tanajib, Arabian Gulf Coast)
W. Heyden 52(1985)187-199

Low-temperature vapour compression and multi-effect distillation of seawater. Effects of design on operation and economics
R. Matz and Z. Zimerman 52(1985)201-216

An operating philosophy to optimize the output, plant life and economy of MSF plants operating at high temperatures
K.G. Cooper, L.G. Hanlon and R.E. Talbot 54(1985)291-299

Operating experience of EDU-series electrodialysis plants used in different industries in the USSR
L.A. Shishliannikov and F.B. Alzhanov 58(1986)77-83

The technical and economic implications of measurement and control errors in water desalination
L. Awerbuch and A.N. Rogers 59(1986)1-17

Control in multiple effect evaporator plants
F.C. Standiford 59(1986)263-292

Control in vapor compression evaporators
F.C. Standiford 59(1986)293-305

Measurements and control in solar distillation plants
E.D. Howe 59(1986)307-320

Study of the operating conditions for three large MSF desalination units each of capacity 7.2/8.6 mgd (27360/32832 ton/day) in Abu Dhabi, UAE
M.H. Ali El Saie, M.S.I. El Kafrawi and M.I. Kamel 73(1989)207-230

Operational experience of once through MSF desalination units
A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja 73(1989)327-340

Operating experience of MSF desalination plant at the Abu Kammash chemical complex
N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni 73(1989)417-428

Three-year experience of a seawater RO plant operating at a conversion greater than 50% in the Cayman Islands
H. Winters 74(1989)183-185

One year operational experience on the process control system at UANE MSF Desalination Plant
S. Rebagliati, E. Ghiazza and K.S. Abueida 75(1989)149-169

Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant
K. Hamby and James Chen 76(1989)3-14

Operating experiences in a sea water reverse osmosis plant in Gibraltar. (1987-1990)
E.G. Darton and A.G. Turner 82(1991)51-69

Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m^3/day RO plant
J.F. Henriquez, J. Bonet and J. Etxaniz 82(1991)71-106

The solar thermal desalination research project at the Platforma Solar de Almeria
A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe 82(1991)145-152

Nine years of reverse osmosis operation at Englewood
H.W. Harlow, M. Ray and R. Quick 87(1992)193-228

Short-term operational planning in WED. Part 1: Structure of the cogeneration system
D. Herrmann, A. El-Nashar and A. Aidrous 92(1993)171-183

Operational optimization of MSF systems
C.D. Hornburg and B.M. Watson 92(1993)333-351

Operational problems in the solar desalination plant and its remedies
M. Abdus Samad 93(1993)615-624

A full decade of operating experience on Al-Khobar-II multi-stage flash (MSF) evaporators (1982-1992)
M.A.K. Al-Sofi, M.A. Al-Hussain, A.A.A. Al-Omran and K.M. Farran 96(1994)313-323

Construction and operation experience of a large-scale electrodialysis water desalination plant
T. Kawahara 96(1994)341-348

Operating report of the largest reverse osmosis desalting plant
E.M. Lohman 96(1994)349-358

Reverse osmosis seawater desalination for power plant
M. Noshita 96(1994)359-368

Solar application in desalination: the Greek Islands experiment
E.-E. Delyannis and V. Belessiotis 100(1995)27-34

Improvement of operation and availability of MSF plants
H. Krause and A. Hassan 107(1996)59-74

Large scale operating experience in membrane systems for water and waste water reclamation
N. Randles 108(1996)205-211

Cogeneration with the LT-MED desalination process
G. Kronenberg 108(1996)287-294

Maintenance activity for partial intervention of retubing on four distillers multi-flash double-deck (capacity 3 mgd for each unit) of Abu Dhabi power station after 18 years of operation activity
V. Franchini 108(1996)295-313

Optimization

Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang 4(1968)361-388

Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson 6(1969)131-152

Optimization of a reverse osmosis system using nonlinear programming
G.B. Hatfield and G.W. Graves 7(1970)147-177

Electrodialysis unit: Optimization and calculation of energy requirements
E. Korngold 40(1982)171-179

Use and abuse of thermodynamic criteria
R. S. Silver 40(1982)231-234

Optimal cooling towers management for zero discharge
O. E. Natale 44(1983)167-176

Computer simulations of multiple-effect FFE-VC systems for water desalination
G. Aly 45(1983)119-131

Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis
G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov
46(1983)171-177

Optimization of electrodialysis process at elevated temperatures
V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
46(1983)253-262

Computer analysis justifies desalination
D. Stephenson 58(1986)155-167

Multidimensional response surfaces in the characterization, comparison and optimization of membranes
P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
61(1987)103-123

The arrangement of spiral-wound ultrafiltration modules
R. L. C. Flemmer, C. A. Buckley and G. R. Groves 61(1987)159-168

Optimization in the preparation of polysulfone ultrafiltration membranes
Guo Yunlan, Shi Mingren and Hu Jiajun 62(1987)173-182

RO design optimization
N.M. Wade 64(1987)3-16

An economic comparison of 2 x1000 m^3/day desalination plants
H.W. Greig and J.W. Wearmouth
64(1987)17-50

Optimization for design of large RO seawater desalination plants
B. Ericsson, B. Hallmans and P. Vinberg 64(1987)459-489

Design and optimization of spiral-wound and hollow fiber RO-modules
R. Rautenbach and W. Dahm
65(1987)259-275

Additive scale control optimization and operation modes
M. A. Al-Sofi, M. A. Al-Hussain and S. G. Al-Zahrani 66(1987)11-32

Optimum arrangement of membranes in a multistage ultrafiltration
M.S. Suwandi and I. Singh
70(1988)327-337

Water harvesting systems in arid lands
C.B. Ciuff 72(1989)149-159

A predictive model to find the optimum chlorine treatment scenario for biofouling control
B.A. Al-Hoti 74(1989)227-241

Reducing the protein fouling of polysulfone surfaces and polysulfone ultrafiltration membranes: Optimization of the type of presorbed layer
L.E.S. Brink and D.J. Romijn
78(1990)209-233

A systematic approach for detection of malfunctions in equipment of nuclear desalination plants during operation
I.I. Kutbi 81(1991)451-481

Economic scheduling of the UAN cogeneration plant: A preliminary optimization study
A.M. El-Nashar and M.S. Khan
85(1991)93-127

Optimizing process time for ultrafiltration and diafiltration
B. Ali Asbi and M. Cheryan
86(1992)49-62

Recent trends in process optimization
P. Floquet, L. Pibouleau and S. Domenech 92(1993)1-20

Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control
A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta 92(1993)43-55

Advances in the methodologies of optimal thermal design
Y.M. El-Sayed 92(1993)79-101

Relevant methods for planning and optimization of power and water production systems of the Gulf countries
Y. El-Mahgary and E. Tamminen
92(1993)149-170

Optimization of sponge ball cleaning system operation and design in MSF plants
F. Al-Bakeri and H. El Hares
92(1993)353-375

An optimal design of a solar desalination plant
A.M. El-Nashar 93(1993)597-614

Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications
B. Dutré and G. Trägårdh
95(1994)227-267

System design optimization of a solar desalination plant using a multi-effect stack type distillation unit
A.M. El-Nashar 97(1994)587-618

Improvement of operation and availability of MSF plants
H. Krause and A. Hassan
107(1996)59-74

Design of robust SISO Pl controllers for a MSF desalination plant
M. Chidambaram, B. Chandasekhara Reddy and D.M.K. Al-Gobaisi
109(1997)109-119

Optimization see Plant optimization

Organic matter

A review of scale control methods
N. M. Wade 31(1979)309-320

Desalinated water production at LNG terminals
A. Antonelli 45(1983)383-390

The study of action of organic additives in polysulfonamide UF membranes
Guonghei Fan, Chaojun Zhang and Lingying Zheng 56(1985)325-332

A preliminary probe about effects of organic solvent in membranes casting solution — Effects of poor solution
Jiajun Hu, Dekuan Kang and Chen Chen 56(1985)333-344

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder
71(1989)233-245

Monitoring of organic compounds in feed and product water samples from MSF plants in the eastern coast of Saudi Arabia
P.C. Mayankutty, A.A. Nomani and T.S. Thankachan 74(1989)243-257

The study of mechanism of organic additives action in the polysulfone membrane casting solution
Hou Tai-Ping, Dong Sheng-Hua and Zhehg Ling-Ying 83(1991)343-360

Organic matter removal from natural waters by electrodialysis demineralization
I. Dobrevsky and S. Pavlova 86(1992)43-48

Membrane separation of low volatile organic compounds by pervaporation and vapor permeation
A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura 90(1993)209-233

Study on fouling materials in the membrane treatment process for potable water
Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa 106(1996)71-77

Wastewater detoxification of organic and inorganic toxic compounds with solar collectors
P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato 108(1996)213-220

Organics

The treatment of industrial effluents with high salinity and organic contents
O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde 67(1987)395-407

Low-energy membrane nanofiltration for removal of color, organics and hardness from drinking water supplies
B.M. Watson and C.D. Hornburg 72(1989)11-22

Carry over of some high molecular weight organics from seawater to MSF distillates
P.C. Mayan Kutty, A.A. Nomani and T.S. Thankachan 97(1994)401-413

A pilot study on groundwater natural organics removal by low-pressure membranes
P.Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg 102(1995)47-56

The use of membrane filtration in conjunction with coagulation processes for improved NOM removal
J.C. Vickers, M.A. Thompson and U.G. Kelkar 102(1995)57-61

Osmotic coefficients

Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: Theoretical calculation of the osmotic coefficient
C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco 10(1972)263-272

Osmotic concentration of salt solutions in a countercurrent multiplier system
N. Chlubek 27(1978)137-141

Activity coefficients in aqueous multicomponent electrolyte solutions from ambient to 200°C
D. Barba, V. Brandani, G. Del Re and G. Di Giacomo 65(1987)113-121

Osmotic pressure of dextran T10 solutions
W. Pusch 68(1988)69-73

Osmotic desalination

Sea water softening by osmosis through desalinating membranes
E. Glueckauf, L.A. McDonald and P.J. Russell 3(1967)155-168

Possibilities of the osmosis process *(in French)*
D. Callies, A. Clayer and J. Orssaud 4(1968)55-60

Development of a marine osmotic solar still for sea water desalination
R. Knighton 39(1981)173

Osmotic processes

Countercurrent flow osmotic processes for the production of solutions having a high osmotic pressure
S. Loeb and M.R. Bloch 13(1973)207-215

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Mass and heat transfer mechanisms in the osmotic distillation process
Jin Sheng, R.A. Johnson and M.S. Lefebvre 80(1991)113-121

Overpotential phenomena

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCI and HCI solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Performance evaluation and process design of an electrodialysis plant by overpotential measurements
R. Passino, C. Marra, A. Rozzi and G. Tiravanti 41(1982)181-197

Oxidation

Total organic carbon reduction of phenol-containing wastewaters by oxidation techniques
G.A. Al-Enezi, H. Shaban and M.S.E. Abdo 95(1994)1-10

The behavior of an oxidizing/reducing agent in seawater
M. Nagai, H. Iwahashi, Y. Hayashi and Y. Ogino 96(1994)291-301

Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis
A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai 96(1994)451-457

Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination
M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal 108(1996)83-89

Oxygen

An electrochemical method for monitoring the oxygen content of aqueous streams at the part-per-billion level
R.E. Meyer, F.A. Posey and P.M. Lantz 11(1972)329-340

An ion-exchange process with thermal regeneration. X. Removal of dissolved oxygen from the feedwater
W.G.C. Raper 17(1975)325-328

An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins
B. A. Bolto, K. H. Eppinger, M. B. Jackson and R. V. Siudak 42(1982)273-290

Oxygenation phenomena as a function of sintered polymer structure of air diffusers
A. Poranek and T. Winnicki
48(1983)85-93

Reaction kinetics of sodium bisulfite and dissolved oxygen in seawater and their applications to seawater reverse osmosis
N. Matsuka, Y. Nakagawa, M. Kurihara and T. Tonomura
51(1984)163-171

The problem of "red waters": A new approach to its solution
A.M. Shams El Din 60(1986)75-88

Ozonation

Reverse osmosis membrane sensitivity to ozone and halogen disinfectants
J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan
48(1983)1-16

Recycling of sewage treatment water by ozone
T. Honda and Y. Kugawa
98(1994)327-334

Electrochemical generation of ozone for water treatment using a cell operating under natural convection
W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed 99(1994)149-157

Reclaimed water — An untapped resource
J.(H.) van Leeuwen
106(1996)233-240

Evaluation of toxic substances in effluents from a wastewater treatment plant
Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri 106(1996)255-261

Membrane fouling decrease by microfiltration with ozone scrubbing
S. Takizawa, K. Fujita and K.H. Soo
106(1996)423-426

Paper industry

Ultrafiltration of bleach effluents as an example of waste-water treatment by ultrafiltration
R.F. Madsen and W.K. Nielsen
24(1978)141-154

Membrane processes for water, pulp and paper, food. State of the art
R. Glimenius 35(1980)259-272

Membrane technology in the pulp and paper industry
O. Olsen 35(1980)291-302

Treatment of pulp/paper bleach effluents by reverse osmosis
M.J. Simpson and G.R. Groves
47(1983)327-333

Paper mill waste water

Electrodialysis in the regeneration of paper mill spent liquor
K. Radhamohan and S. Basu
33(1980)185-200

Application of membrane technologies for recovery of water from pulp and paper mill effluents
B. Chakravorty and A.S. Srivastava
67(1987)363-369

Membrane technique in simplification of soda recovery process in pulp and paper industry
S. Basu and V.S. Sapkal
67(1987)371-379

Parallel plate channel

A mathematical model for the flow in an electrodialysis cell
D. Pnueli and G. Grossman
6(1969)303-308

Effect of high axial velocity on performance of cellulose acetate hyperfiltration membranes
J.D. Sheppard and D.G. Thomas
8(1970)1-12

Concentration polarization in a reverse osmosis test cell
G. Jonsson and C.E. Boesen
21(1977)1-10

Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets
A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini 26(1978)3-16

Velocity profile caused by a high porosity spacer between parallel plates (membranes)
W.W. Focke and P.G.J.M. Nuijens
49(1984)243-253

Parametric study

Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes
W.L. Griffith, R.M. Keller and K.A.Kraus 4(1968)283-308, Err. 11(1972)129

Parametric study of cost factors in RO desalination (GKSS plate system)
J. Kaschemekat and K.W. Böddeker
36(1981)75-85

Parametric study on seawater reverse osmosis desalting plants
R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen 46(1983)3-15

Some thoughts on the limitations on increasing the unit sizes of conventional cross-tube MSF distillation plants
W.T. Hanbury 93(1993)127-145

Particles

Removal of surfactants and particulate matter from sea water desalination blowdown brines by foam fractionation
E. Valdes-Krieg, C. J. King and H. H. Sephton 16(1975)39-53

Effect of particle deposition on the reduction of water flux in reverse osmosis
C.-C. Hung and C. Tien
18(1976)173-187

Particle motion in a laminar slit flow: a fundamental fouling study
F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
47(1983)221-232

Pretreatment of seawater by flocculation and settling for particulates removal
A. Adin and C. Klein-Banay
58(1986)227-241

Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods
A. C. Molseed, J. R. Hunt and M. W. Cowin 61(1987)249-262

A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions
Wang Zhenkun, Zhang Huanxin and Chan Ruiying 62(1987)165-171

Passivation

Acid cleaning and passivation of power plant condensers and desalination plants
R. Cigna, A. De Maio, L. Giuliani and G. Gusmano 38(1981)269-279

Electrochemical monitoring of the process of boiler cleaning
A.M. Shams El Din and A.M.K. Tag El Din 75(1989)171-184

Perforation spacing

Optimal perforation spacing in reverse osmosis support tubes
Y. Winograd and A. Solan 8(1970)237-241

Losses in MSF desalination units
H.T.A. El-Dessouky 44(1983)103

Performance aspects

Mathematical model of a mechanical-vapor compression evaporator. Application production of freshwater by seawater desalination. Part II. Numerical exploitation
D. Aussenac, M. Enjalbert and S. Domenech 49(1984)117-139

Significance of effects in a reverse osmosis desalination unit
S. G. Serag-El-Din and S. S. Mekhemar 51(1984)231-254

Seawater desalination by reverse osmosis. Plant design, performance data, operation and maintenance (Tanajib, Arabian Gulf Coast)
W. Heyden 52(1985)187-199

Abu Dhabi solar distillation plant
A. M. El-Nashar and K. Ishii 52(1985)217-234

Use of microprocessors for control, data acquisition and on line performance evaluation in a reverse osmosis plant
P. Glueckstern, M. Wilf, J. Etgar and J. Ricklis 55(1985)469-480

Investigation of performance characteristics in jet-sprayed desalination plants
V.N. Slesarenko and V.M. Stchetinin 56(1985)431-437

Efficient energy utilization in :single purpose desalination plants
S.E. Aly 58(1986)99-112

Computer-based performance evaluation of dual-purpose steam turbine/multistage flash desalination plants
F.G. Abbosh and I. Kamal 66(1987)127-140

Predicted performance profiles along a long-tube cross-flow microfiltration system
V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal 71(1989)247-264

On the standardization of performance data for reverse osmosis desalination plants
B.A.Q. Darwish, M. Abdel-Jawad and G.S. Aly 74(1989)125-140

Permasep permeators

Membrane replacement. Permasep® reverse osmosis desalination
C.T. Sackinger 46(1983)41-55

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

Permeability See Membranes, permeability

-

Permeate flux

Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids
J. Hiddink, D. Kloosterboer and S. Bruin 35(1980)149-167

Capacity adaption of reverse osmosis systems by temperature and pressure control of the raw water
K. Heybach 44(1983)85-90

Particle motion in a laminar slit flow: a fundamental fouling study
F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti 47(1983)221-232

Treatment of distillates and permeates from seawater desalination plants
H. Ludwig and M. Hetschel 58(1986)135-154

Predicted performance profiles along a long-tube cross-flow microfiltration system
V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal 71(1989)247-264

Electrical conductivity and total dissolved solids - what is their precise relationship?
N.R.G. Walton 72(1989)275-292

Experiments on sea water desalination by membrane distillation
K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya 78(1990)177-185

Crystallization of calcium sulfate on reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 79(1990)47-63

The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I.
M.J. Hurndall, E.P. Jacobs and R.D. Sanderson 86(1992)135-154

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review
A.D. Marshall, P.A. Munro and G. Trägårdh 91(1993)65-108

Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system
K. Ishiguro, K. Imai and S. Sawada 98(1994)119-126

Use of MnO_2 as a dynamic membrane with crossflow microfiltration: Slow membraning technique
M.H. Al-Malack and G.K. Anderson 109(1997)15-24

Ultrafiltration of agricultural waste waters with organic and inorganic membranes
W. Reimann and I. Yeo 109(1997)263-267

Permeators

Membrane performance reports on reverse osmosis plants using Permasep® permeators since 1972
W.J. Godfrey, Jr. 22(1977)435-443

Start-up of RO modules after a very long storage time: A case history
J.M. Rovel and L. Daniel 65(1987)373-379

Simplified Ohya-Sourirajan analysis for predicting permeator performance
A. Malek, M.N.A. Hawlader and J.C. Ho 91(1993)265-278

Practical observations on reverse osmosis plants including raw water contamination problems, different intake stations and permeator performance
F.S. Al-Kebti, E.Z. Isnasious and A.M. Al-Mahyas 93(1993)259-272

The TWIN™ permeator - Development and commercialization of a new RO device
T.J. Eckman, I. Moch, Jr. and C.P. Shields 96(1994)11-22

Reliable supply of drinking water through use of high performance B-10 "TWIN" permeators. A one year case history at Das Island, UAE
H.W. Pohland, A.B. Hamida and K. Chida 96(1994)303-310

A lumped transport parameter approach in predicting B10 RO permeator performance
A. Malek, M.N.A. Hawlader and J.C. Ho 99(1994)19-38

Permselective membranes

Advances in the electrochemistry of permselective membranes
D. Kertész, F. de Körösy and E. Zeigerson 2(1967)161-169

Laboratory research on desalination in a magnetic field using permselective membranes
W. Schafer 3(1967)174-182

Interaction of permselective membranes and their counter-ions
F. De Körösy and E. Zeigerson 5(1968)185-199

Electrodialysis processes using ion-exchange resins between membranes
E. Korngold 16(1975)225-233

The permselective coefficient of inorganic ions on reverse osmosis membrane
M. Igawa, S. Yoshida, T. Yamabe and N. Takai 17(1975)257-265

Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films
A. Chapiro and A.-M. Jendrychowska-Bonamour 24(1978)83-91

On the relationship between permselective membranes porosity and evaporation rate of the casting solutions
A. Franceschini, G. Fidilio and G. Actis 26(1978)37-44

Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids
R. Oláh and K. Vadasdi 67(1987)547-557

Pervaporation

Basic aspects of pervaporation
J. Néel, P. Aptel and R. Clément 53(1985)297-326

Use of pervaporation systems in the chemical industry
G. F. Tusel and H. E. A. Brüschke 53(1985)327-338

A brief discussion of numerical simulation for pervaporation in capillary permeator
Zhu Chang-Lue and Shao Xin-Ming 62(1987)283-292

Separation of ethanol-water mixtures by pervaporation-membrane separation process
Zhu Changluo, Liu Moe and Xu Wei 62(1987)299 -313

Dehydration of multicomponent organic systems by a reverse osmosis pervaporation-hybrid process module-, process design and economics
R. Rautenbach, C. Herion and M. Franke 70(1988)445-453

Dehydration of alcohol fuels by pervaporation
L. Kraetz 70(1988)481 -485

A study on characteristics and enhancement of pervaporation - membrane separation process
Z. Changluo, L. Moe, X. Wei and J. Wenchang 71(1989)1-18

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Gas separation and pervaporation: Membrane and module development
H. Strathmann, C.-M. Bell and J. Kerres 77(1990)259-278

Removal of ethanol from aqueous streams by pervaporation
H.E.A. Brüschke 77(1990)323-329

Pervaporation and dehydration of water-ethanol mixtures by means of cuprophan hollow fiber membranes
Jin Sheng and J.C. Mora 80(1991)71-84

Separation of dichloroethane-trichloroethylene mixtures by means of a membrane pervaporation process
Jin Sheng 80(1991)85-95

Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures
M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya 80(1991)139-158

Membrane separation of low volatile organic compounds by pervaporation and vapor permeation
A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura 90(1993)209-233

Pervaporation of high boilers using heated membranes
K.W. Böddeker, G. Bengtson, H. Pingel and S. Dozel 90(1993)249-257

Mass transfer analysis of pervaporation through an ion exchange membrane
P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel 90(1993)259-276

Modified chitosan membranes for pervaporation
Y.M. Lee 90(1993)277-290

Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes
C. Dotremont, S. Goethaert and C. Vandecasteele 91(1993)177-186

Air sweep water pervaporation with hollow fiber membranes
E. Korngold and E. Korin
91(1993)187-197

Diluted brine concentration process using membrane pervaporation technique: Laboratory scale studies
Jin Sheng and M.S. Lefebvre
91(1993)253-263

Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons
C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele
95(1994)91-113

Treatment of wastewater from phenolic resin process by pervaporation
M. Kondo and H. Sato
98(1994)147-154

Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol
E. Oikawa, M. Shingai, K. Motomi and T. Aoki 101(1995)69 -77

Pervaporative transport of aqueous ethanol: Dependence of permeation rates on ethanol concentration and permeate side pressures
M. Tsuyumoto, K. Akita and A. Teramoto 103(1995)211-222

Water desalination by pervaporation with hollow fiber membranes
E. Korngold, E. Korin and I. Ladizhensky 107(1996)121-129

Hydrophilic membranes for pervaporation: An analytical review
S.I. Semenova, H. Ohya and K. Soontarapa 110(1997)251-286

pH

Rejection of carbon dioxide and pH effects in reverse osmosis desalination
C.E. Milstead, A.B. Riedinger and H.K. Lonsdale 9(1971)217-223

Influence of scale prevention on corrosion of heat-transfer tube
J. Sakuma, T. Takagi, S. Yamada and Y. Kibe 14(1974)189-196

The pH control in the large-scale MSF plants by using drop structure type decarbonator
T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome 22(1977)415-423

An ion-exchange process with thermal regeneration. XIII. Treatment of feedwater containing bicarbonate by adjustment of the pH of the regenerant with carbon dioxide
S.D. Hamann and N.H. Pilkington 28(1979)43-64

Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant
S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini 38(1981)185-199

Today's status of pH measurement and control in desalination plants
F.E. Moore 39(1981)23-31

The effect of pH on the nanofiltration of the carbonate system in solution
A.E. Simpson, C.A. Kerr and C.A. Buckley 64(1987)305 -319

Optimal removal of chlorolignin by ultrafiltration achieved by pH control
M. Nyström and M. Lindström
70(1988)145 -156

The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I.
M.J. Hurndall, E.P. Jacobs and R.D. Sanderson 86(1992)135-154

Phase inversion

The formation mechanism of phase inversion membranes
H. Strathmann and K. Kock
21(1977)241-255

Asymmetric membrane preparation from nonsolvent casting systems
K. E. Kinzer, D. R. Lloyd, J. P. Wightman and J. E. McGrath
46(1983)327-334

Prediction of membrane properties using phase diagrams in the polymer-solvent-precipitant system
Hu Jiajun 62(1987)49-53

Phase inversion in plane membranes. I. Computer-aided gravimetric data acquisition and fitting procedures of the desolvation kinetics
C. Castellari and S. Ottani
69(1988)211-222

Phase inversion in plane membranes. II. A direct comparison between experiments and evaporation model predictions
C. Castellari 69(1988)223 -234

Analysis of the structure-determining process of phase inversion membranes
K. Kimmerlie and H. Strathmann
79(1990)283-302

Phase separation

Asymmetric membrane structures as a result of phase separation phenomena
L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
32(1980)33-45

The mechanism of membrane phase separation
Wu Qiulin, Cong Lanbo and Liu Qingshang 62(1987)69-78

The investigation of solution thermodynamics for the polysulfone—DMAC—water system
Li Shuguang, Jiang Chengzhang and Zhang Yuanqi 62(1987)79 -88

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Pore formation mechanism of membranes from phase inversion process
Tai-Horng Young and Leo-Wang Chen 103(1995)233-247

Phenol

Phenol-selective highly resistant RO membranes made from PVA for the purification of toxic industrial wastes
S. Peter, N. Hese and R. Stefan
19(1976)161-167

The mathematical modeling of the removal of phenol with emulsified liquid membranes
Fudu Miao, Xinpei Li and Yuanqi Zhang 56(1985)355-366

Treatment of wastewater from phenolic resin process by pervaporation
M. Kondo and H. Sato
98(1994)147-154

Phosphate removal

Possible applications of fuzzy controllers for chemical phosphate elimination
F. Gebhardt and J. Maschlanka 96(1994)89-102

Process options for nitrogen and phosphorus removal in domestic wastewater
B. Ericsson 98(1994)105-118

On-site tertiary treatment using Ecomax systems
M. Bowman 106(1996)305-310

Increase in phosphate removal from wastewater by alternating aerobic and anaerobic conditions
C. Sommariva, A. Converti and M. Del Borghi 108(1996)255-260

Phosphonate additives

Calcite crystal growth inhibition by phosphonates
M.M. Reddy and G.H. Nancollas 12(1973)61-73, Err. 13(1973)104

The crystallization of magnesium hydroxide
Sungtsuen Liu and G.H. Nancollas 12(1973)75-84

Photometric procedure

Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium
L.H. Shaffer, R.A. Knight and D.A. Smith 2(1967)125-129

Phthalate

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Additives for the preparation of polysulfone-based ultrafiltration membranes, especially for hemodialysis and hemo-osmometer
Xu Xie-quing 48(1983)79-84

Fouling of RO membranes by phthalate esters contamination
D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob 105(1996)13-20

Piezodialysis

Geometric effects in piezodialysis: through charge-mosaic membranes
L. Dresner 10(1972)47-66

An engineering analysis of piezodialysis
F.B. Leitz and W.A. McRae 10(1972)293-307

Transport properties of charge-mosaic membranes. III. Piezodialysis
C.R. Gardner, J.N. Weinstein and S.R. Caplan 12(1973)19-33

Piezodialysis
F.B. Leitz 13(1973)373-388

Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis
L. Dresner 15(1974)109-125

Piezodialysis: a comparison of theoretical treatments
J.N. Weinstein and F.B. Leitz 16(1975)245-252

Piezodialytic transport across charge-mosaic membranes
G. Blazejewska-Wisniewska and T. Winnicki 38(1981)461-471

Piezodialysis membranes

Piezodialysis
F.B. Leitz 13(1973)373-388

Development of membranes and resins for piezodialysis
J. Shorr and F.B. Leitz 14(1974)11-20

Piezodialysis: Styrene-butadiene copolymer membranes
T. Yamabe, K. Umezawa, S. Yoshida and N. Takai 15(1974)127-134

Piezodialytic transport across charge-mosaic membranes
T. Winnicki, G. Blazejewska and A. Mika-Gibala 32(1980)77-89

Piezodialytic transport across charge-mosaic membranes
G. Blazejewska-Wisniewska and T. Winnicki 38(1981)461-471

Pilot plant

Reverse osmosis desalination costs derived from the Coalinga pilot plant operation
D. Stevens and S. Loeb 2(1967)56-74

Sixteen months of field experience on the Coalinga pilot plant
S. Loeb and E. Selover 2(1967)75-80

Vacuum freezing vapor compression (Zarchin) process. Present status and future trends
M. Pachter and A. Barak 2(1967)358-367

Solvent extraction desalination pilot plant
R.R. Davison, W.B. Harris and W.H. Smith, Jr. 3(1967)17-26

Test of the desalting flash pilot plant with recirculating seed
V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo 5(1968)34-39

Scope and development of solar stills for water desalination in India
S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar 5(1968)64-74

Reverse osmosis pilot plant operation: a spiral module concept
T.J. Larson 7(1970)187-199

Pilot plant study of desalination by direct contact heat transfer
T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan 13(1973)221-229

Development and field trial evaluation of a new reverse osmosis module system
J.R. Grover, R. Gayler and M.H. Delve 14(1974)93-102

The use of reverse osmosis for the treatment of Rhine river water. Part I
D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw 14(1974)163-172

Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed
D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard 15(1974)325-341

Upflow vertical tube evaporation of sea water with interface enhancement: Process development by pilot plant testing
H.H. Sephton 16(1975)1-13

Desalting in Hong Kong — The first phase
F.A. Drake 18(1976)1-14

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

A method of using irrigation drainage water for power plant cooling
H.H. Sephton and G. Klein
19(1976)257-268, Err. 21(1977)234

Direct contact condensation multistage flash distillation
A. Kogan 19(1976)299-307

Reverse osmosis for Yuma desalting plant
R.G. Sudak and A.M. Desai
19(1976)389-396

Desalination of Rhine River water by ion exchange. Part 1. Pilot plant studies of lime slurry regeneration
S. Evans and R.M. Gomes
19(1976)433-438

The electrodialysis — ion exchange demonstration plant at Brindisi
V. Balice, G. Boari, M. Santori and G. Tiravanti 19(1976)447-464

Desalting in Australia: The development of a new process for brackish water
P.M. Sharples and B.A. Bolto
20(1977)391-401

An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon
S. Iwai, H. Ohmori and T. Tanaka
23(1977)29-36, Err. 25(1978)215

Vapor compression vertical tube foam evaporation
H.H. Sephton 23(1977)299-310

Pressure driven membrane processes in the treatment of industrial effluents
R. Matz, E. Zisner and G. Herscovici
24(1978)113-128

Membrane processes used for the treatment of industrial effluents
P. Mappelli, M. Santori, A. Chiolle and G. Gianotti 24(1978)155-173

Reverse osmosis pilot plants performance in brackish water desalination
G. Boari, C. Carrieri, P. Mappelli and M. Santori 24(1978)341-364

Membrane technology research at Lund Institute of Technology
G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt 27(1978)81-89

Investigation on sea water desalination plants in Spain
S. Muro, R. Sterner and J. Ugarte
28(1979)109-116

Investigation of heat exchange during sea water boiling in a horizontal thin film desalination plant
V. Slesarenko 29(1979)311-318

Absorption freezing vapor compression: process selection, pilot plant design, process economics
J.H. Fraser 33(1980)85-98

Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow
V. Slesarenko 33(1980)251-257

Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II
T.G. Somer and C. Ozgen
34(1980)249-265

Operation of a horizontal tube brine concentrator
J. Weinberg and Y. Rotstein
40(1982)159-168

Mathematical model of a mechanical vapour compression evaporator. Application to seawater desalting. Part I. The model settlement
D. Aussenac, S. Domenech and M. Enjalbert 41(1982)137-169

Vertical tube foam evaporation for water desalination
H.H. Sephton 42(1982)27-35

Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants
R. Zannoni, A. de Maio, G. Odone and G. Coliva 45(1983)337-344

The Sydney University solar desalination pilot plant design
J. P. Gerofi 45(1983)375-382

The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions
N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov
46(1983)197-201

RO desalting of brackish water oversaturated with CaSO4
M. Wilf and J. Ricklis
47(1983)209-220

Reverse osmosis treatment and reuse of textile dyehouse effluents
K. Treffry-Goatley, C. A. Buckley and G. R. Groves 47(1983)313-320

The desalination of coalmine drainage water by reverse osmosis
R.C. Squires, J.A.C. Cowan and F.C. Wood 47(1983)343-350

A microprocessor-based data monitoring and control system for a continuous ion exchange plant
E. W. Randall 49(1984)169-184

A field trial of reverse osmosis in the El Khanka Desert, Egypt
M.G.A. Khedr, A.H. Abd El-Wahab, J. Kaschemekat and J. Mohn
51(1984)173-181

Testing RO desalination at very high recoveries in the Arabian Gulf (GKSS plate system)
K. Scharff 60(1986)117-133

The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures
M.A. Darwish, N.M. Al Najem, T. Froment and J. de Gunzbourg
74(1989)277-288

THM precursor removal and softening — Ft. Myers 12 MGD RO Membrane Plant, Florida, USA
P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson
76(1989)39-52

Treatment of landfill gas by gas permeation — Pilot plant results and comparison to alternatives
R. Rautenbach and K. Welsch
90(1993)193-207

Pipes

Optimization of high pressure piping in reverse osmosis plants
S. Nordin, B. Ericsson and B. Wallen
55(1985)247-259

Automated design of optimum pipeline in chemical industry
V.V. Kafarov and V.P. Meshalkin
66(1987)119 -125

Measurement of localized metal removal in pipes by gamma-ray back scattering method
S. Abdul-Majid and U. Dawood
75(1989)185-198

Neutron-capture gamma-ray technique for scale identification inside pipes
S. Abdul-Majid and U. Dawood 75(1989)199-210

Planning

Conjunctive use of desalination — A systems view for planning
N. El-Ramly 19(1976)534

Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant
M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai 76(1989)75-88

Optimizing and planning of seawater desalination
W.F.J.M. Nooijen and J.W. Wouters 89(1992)1-20

Relevant methods for planning and optimization of power and water production systems of the Gulf countries
Y. El-Mahgary and E. Tamminen 92(1993)149-170

Plant construction

Durability of cement and concrete in sea water
M. Ben-Yair 3(1967)147-154

Polymer concrete: A potential construction material for desalination plants. Part I
J.E. Backstrom and J.T. Dikeou 9(1971)97-125

Construction and initial operation of the VTE/MSF module
C. Grua 14(1974)1-10

Construction of flash distillation units with structurally independent stages *(in Spanish)*
J.S. Mejorada and O.P. Siller 19(1976)269-282

Direct contact condensation multistage flash distillation
A. Kogan 19(1976)299-307

Pre-packaged barge mounted desalting modules
R.W. Durante 19(1976)555-571

600,000 GPD (I) reverse osmosis for 15,000 mg/l lake water
R.A. Tidball 20(1977)19-26

Design parameters and operation of small and medium size municipal reverse osmosis in North America
E.W. Johansen, Jr. and D.C.M. Crabbe 20(1977)53-60

Professional responsibility in the desalting industry
R.B. Newman 20(1977)81-86

The design, construction, testing and operation of a large scale prototype desalting plant in Israel
A.Z. Barak and W.L. Barnes 20(1977)163-172

Two detailed case studies of large Libyan desalination plants and their influence on development
M. Aswed and H. El-Hares 20(1977)239-247

Desalination in the development of Libya. Problems of implementation and impact on environment
H. El-Hares and M. Aswed 20(1977)249-256

Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics
K.R. Fröhner 21(1977)147-164

Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants
T. Nakahara, H. Sasaki, Y. Kanda and H. Togano 23(1977)151-160

Desalting in Saudi Arabia - demand, production, management, associated power generation and future plans
A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri 25(1978)9-44

The Bushehr 200,000 m^3/d desalination plant
M. Edalat, J. Entessari and H. Hamidi 26(1978)127-140

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia
A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton 27(1978)215-231

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj 29(1979)319-329

Concrete structures for desalination plants (in French)
A. Bernard and R. Lacroix 29(1979)331-336

Combined Yanbu and Medina power and desalination plant
I.M.R. Jamjoom and G. Costes 30(1979)283-300

Riyadh's reverse osmosis water treatment plants — The largest demineralization complex in the world
H.E.A. Ghulaigah and B. Ericsson 30(1979)301-314

Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia
F. Fioravanti, D. Falleni, G. Odone and A. De Maio 31(1979)155-158

The standard module philosophy for multi stage flash/fluidized bed evaporation: a new approach in desalination
D.G. Klaren and N. Halberg 31(1979)233-240

Material specification, availability and life of desalination equipment in Arabia and the Gulf
T.G. Temperley 31(1979)353

Concrete structure for desalination plants *(in French)*
A. Bernard, R. Lacroix and M. Izabel 31(1979)385

Solar distillation plant at Awania, Gujarat, India
G.L. Natu, H.D. Goghari and S.D. Gomkale 31(1979)435-441

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project
R. Manjarrez and M. Galván 31(1979)545-554

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball and D. Kuiper 32(1980)199

Building and commissioning the 3.0 Mgd seawater RO plant for Key West, Florida
W. W. Boesch 38(1981)485-496

Experience in commissioning large desalination plants in the Middle East
D.W. Black and R.M. Morris 39(1981)229-239

Glass fiber reinforced plastic applications for corrosive environments in desalination- and power plants, and for water treatment
K.-H. Geigl and R.P. Malhotra 44(1983)307-315

Construction and commissioning of 6 x 23,000 t/d MSF plant, Al Jobail Phase 1
D.S. Khumayyis and M. Ohtani 45(1983)155-165

Experience with 4 x 5 Migd MSF plant in Qatar: Report on construction material performances
M. Bertuzzi, G. D'Angelo and E. Moretti 45(1983)175-181

Seawater desalination by reverse osmosis
K. Marquardt, R. Nagel and H. Seeger 46(1983)135-143

Construction and commissioning of Al Jobail Phase II desalination plant
A.M. Al-Mudaiheem and H. Miyamura 55(1985)1-11

Plant control

Control and instrumentation experience at Lok on Pai MSF seawater desalination plant
A.R. George and B. Tyler 39(1981)35

Desalination plant control with microprocessor based digital technology
G. O. Hultin and R. Harper 45(1983)329-336

Plant design

Mobile and floating flash distillation plants
K.D.B. Johnson and D.W. Clelland 2(1967)170-174

Development of direct contact flash distillation concepts
P.T. Walker, I. Newson and K.D.B. Johnson 2(1967)196-206

Large scale dual purpose plant for water/power production
D.W. Clelland 2(1967)215-219

Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California
W.K. Davis, L. Galstaun and C. Sharpf 2(1967)227-233

Hydraulic principles for the design of electrodialysis desalination plants
V.A. Klyachko and L.D. Ushakov 2(1967)279-282

Questions of sea water desalination plant design
W. Fichtner 3(1967)252-258

Problems likely to be encountered in the design of a large flash distillation plant
R. Starmer, F.C. Thornley and J.A. Modet 3(1967)343-352

Possibilities of the osmosis process *(in French)*
D. Callies, A. Clayer and J. Orssaud 4(1968)55-60

The conjunctive use of desalination and conventional surface water resources
P.A. Mawer and M.J. Burley 4(1968)141-157

Scale formation in sea water distillation plants
O. Flint and M.N. Elliot 5(1968)5-16

Development of humidification-dehumidification technique for water desalination in arid zones of India
S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar 5(1968)55-63

Large-scale seawater desalination in the Netherlands
P.R. Bom 5(1968)75-81

Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion
C.J. Huang, H.M. Lee and A.E. Dukler 6(1969)25-56

A low temperature model for equilibration rates in flashing-flow and its design implications
A. Porteous 6(1969)337-347

The design of a prefabricated solar still for the island of Aldabra
A. Porteous 8(1970)93-98

Concerning the economic value of experimentation in the design of desalting plants
M. Tribus and J.P. Pezier 8(1970)311-349

A computer method for engineering and economic evaluation of electrodialysis plants
M. Avriel and N. Zelingher 10(1972)113-146

Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization
L. T. Fan, C. L. Hwang, N. C. Pereira, L. E. Erickson and C. Y. Cheng 11(1972)217-238

Application of a design computer code to determine the off-design characteristics of the Gibraltar vertical tube evaporator desalination plant
D.C. Guneratne 13(1973)343-358

Construction and initial operation of the VTE/MSF module
C. Grua 14(1974)1-10

Design features of secondary refrigerant freezing plants
W.R. Burton and A.I.Lloyd 14(1974)151-161

Engineering development of hyperfiltration with dynamic membranes. Part II. Brackish water pretreatment pilot plant
J.D. Sheppard and D.G. Thomas 15(1974)307-323

The new look at dual-purpose plant design
T.E. Lindemuth and L. Awerbuch 17(1975)75-86

Desalting in Hong Kong — The first phase
F.A. Drake 18(1976)1-14

Practical aspects of sea water desalination by reverse osmosis
C.W. Saltonstall, Jr. 18(1976)315-320

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs
J.J. Allard, J.M. Rovel and P. Treille 19(1976)169-174

Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia
A.M. El-Nashar and A.A. Husseiny 19(1976)189-199

Direct contact condensation multistage flash distillation
A. Kogan 19(1976)299-307

Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA
K.G. Patel, F.L. Harris and K.C. Channabasappa 19(1976)381-388

Design of reverse osmosis systems for commercial seawater desalination
D.C. Bullock 19(1976)397-404

Large scale water reclamation by reverse osmosis
T.J. Larson and D.G. Argo 19(1976)421-432

Ion exchange pretreatment using desalting plant concentrate for regeneration
C. van Hoek, J.W. Kaakinen and L.A. Haugseth 19(1976)471-479

Yuma desalting plant design
I.G. Taylor and L.A. Haugseth 19(1976)505-523

Design of desalination plant facilities for remote locations
O.J. Morin 19(1976)533

600,000 GPD (I) reverse osmosis for 15,000 mg/l lake water
R.A. Tidball 20(1977)19-26

Dual purpose power/water plants utilizing both distillation and reverse osmosis
C.D. Hornburg and J.E. Cruver 20(1977)27-42

Design parameters and operation of small and medium size municipal reverse osmosis in North America
E.W. Johansen, Jr. and D.C.M. Crabbe 20(1977)53-60

Reverse osmosis to achieve water control and recycle
R.T. Heizer and C.E. Plock 20(1977)61-69

Design and operation of a 5000 m^3/d reverse osmosis dual product plant
R. Blevitt and J.L. Hooper 20(1977)119-142

The design, construction, testing and operation of a large scale prototype desalting plant in Israel
A.Z. Barak and W.L. Barnes 20(1977)163-172

Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East
S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny 20(1977)257-266

The Hong Kong 40 mgd desalination plant: Its design features and performance during the first year of operation
F.C. Wood, H.J. Woodthorpe and Y.N. Wu 20(1977)319-334

An integral design for desalination plant using the secondary refrigerant freeze process
A.I. Lloyd 21(1977)137-146

Vapor compression evaporation for inland desalting
O.E. Kirchner 22(1977)31-40

Development of desalination technology using warm discharge water
O. Moberg 22(1977)141-150

High recovery reverse osmosis with strontium sulfate in a brackish well water source
G.A. Milton and D.H. Furukawa 22(1977)335-343

Some design aspects deduced from the thermodynamic calculations for MSF desalination plants
J. Lammers, G. Scheffler and P. Monheim 22(1977)385-393, Err. 23(1977)588

5,000,000 imp. gal/day sea water desalination plant for the Ministry of Electricity and Water, Government of Kuwait
H. Harashina 22(1977)425-434

Development of new type thermally regenerable ion exchange plant
K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby 22(1977)505-514

Some special design features of Kuwait MSF plants
Z.M. Abu-Eid and A.G. Fakhoury 23(1977)263-284

High recovery in the Yuma desalting plant
J.W. Kaakinen, R.J. Eisenhauer and C. van Hoek 23(1977)357-366

Design and operation of a turnkey 17,000,000 gpd reverse osmosis water treatment plant: Buwayb, Riyadh V, Saudi Arabia
W.S. Finlay and P.V. Ferguson 23(1977)389-399

Fresh water from the sea: a 380 cubic meter per day high temperature electrodialysis plant
W.A. McRae, E.J. Parsi and G.C. Ganzi 23(1977)401-408

The Joint United States/Israel desalination project: Progress report
A.Z. Barak, L. Awerbuch and R.H. Horowitz 23(1977)553-562

Pressure driven membrane processes in the treatment of industrial effluents
R. Matz, E. Zisner and G. Herscovici 24(1978)113-128

Design and operating parameters for tubular ultrafiltration membrane modules
R. Matz and Y. Meitlis 24(1978)281-294

Design criteria for the Yuma desalting plant
F.B. Leitz and E.I. Ewoldsen 24(1978)321-340

Seawater reverse osmosis system projects, a manufacturer's viewpoint
B. Andrews 25(1978)227-231

Design and operation of 2 x 2.5 mgd Bahrain desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 26(1978)117-125

Explicit flux expressions in tubular reverse osmosis desalination
G.H. Rao and K.K. Sirkar 27(1978)99-116

Status of the Yuma desalting plant
L.A. Haugseth 27(1978)157-174

The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia
A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton 27(1978)215-231

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj 29(1979)319-329

The Yuma desalting plant
M. Lopez 30(1979)15-21

Ten years operating experiences at 7.5 mgd commercial desalination plant — Rosarito B. C. Mexico
E.G. Gomez 30(1979)77-90

Difficulties encountered in executing and running of waste water plants in developing countries
M. Hares and M.A. Dayem 30(1979)175-185

Features of desalination plants in semi-arid areas
A.H. Nasrat and T.V. Balakrishnan 30(1979)187-202

Saudi Arabian-U.S. joint agreement for technical cooperation in desalination
I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan 30(1979)247-157

Jeddah seawater reverse osmosis installation
C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton 30(1979)259-281

Combined Yanbu and Medina power and desalination plant
I.M.R. Jamjoom and G. Costes 30(1979)283-300

Riyadh's reverse osmosis water treatment plants — The largest demineralization complex in the world
H.E.A. Ghulaigah and B. Ericsson 30(1979)301-314

Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant
S. C. May, E. H. Houle, S. A. Reed and W. F. Savage 30(1979)605-612

A new look at dual purpose, water and power, plants — Economy and design features
S. Tadros 30(1979)613

Considerations in the site selection and equipment specification for the Yanbu 380 m^3/ hr desalination plant
J.R. Stange and W.S. Hsieh 31(1979)69-

Modular program for design and simulation of desalination plants
R. Rautenbach and H. G. Büchel 31(1979)85

The influence of process temperatures on the design of multi-stage flash distillation plants
K. Thies and J. Hapke 31(1979)101-111

Vapor compression distillation
S. J. Senatore 31(1979)135-144

Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia
F. Fioravanti, D. Falleni, G. Odone and A. De Maio 31(1979)155-158

Engineering and process experience deriving from various solutions in designing MSF evaporators
D. Barba et al. 31(1979)171

25 years experience in the development and application of scale inhibitors
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 31(1979)243-255

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project
R. Manjarrez and M. Galván 31(1979)545-554

Seawater desalination and reverse osmosis plant design
H.W. Pohland 32(1980)157-167

Design and operation of 800,000 gpd reverse osmosis seawater system
R. Quinn 32(1980)179

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball and D. Kuiper 32(1980)199

Seawater reverse osmosis — Statement of the art assessment
S.R. Latour 32(1980)221

Design aspects of a solar assisted reverse osmosis desalting unit for urban communities
A.M. El-Nashar and A.A. Husseiny 32(1980)239-256

Desalting sea water to less than 4 ppm by electrodialysis
J.E. Lundstrom 32(1980)259-277

Engineering and process experience deriving from various solutions in the design of MSF evaporators
D. Barba 33(1980)11-20

Absorption freezing vapor compression: process selection, pilot plant design, process economics
J.H. Fraser 33(1980)85-98

Conceptual design aspects of reverse osmosis
D. Kuiper and M. Mendia 35(1980)273-289

Vapor compression distillation with maximum use of waste heat
S.J. Senatore 38(1981)3-12

Desalination by vapor compression
W. Bulang 38(1981)85-97

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Design of high efficiency single and dual purpose plants with gas turbines
G. F. Tusel and I. Kamal 38(1981)135-144

MEDA: A new thermal concept for desalting plants
G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal 38(1981)147-

Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant
S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini 38(1981)185-199

Sea water intake and its effect on heat rejection design and material for flash distillation plant
M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim 38(1981)257-267

Building and commissioning the 3.0 Mgd seawater RO plant for Key West, Florida
W. W. Boesch 38(1981)485-496

Design of a small solar-powered desalination system
T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione 39(1981)71-81

Design and operation experience with solar powered multistage desalination plants
R. Kriesi 39(1981)109-116

Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience
G. Petersen, S. Fries, J. Mohn and A. Müller 39(1981)125-135

Waste heat powered reverse osmosis plants
R.A. Tidball and R. Kadaj 39(1981)137-145

Development of SOLAR DESAL, a code for modeling, simulation and design of solar desalination systems
T. E. Dix 39(1981)169-170

Engineering design of a 6000 m^3/day seawater hybrid RO-ED helio-desalting plant
A.A. Husseiny and H.L. Hamester 39(1981)171-172

Development of a marine osmotic solar still for sea water desalination
R. Knighton 39(1981)173

Experience in commissioning large desalination plants in the Middle East
D.W. Black and R.M. Morris 39(1981)229-239

Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys
S. Toyama, Y. Nakashima and M. Sato 40(1982)297-309

Reliability of MSF processes based on operation history
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 41(1982)81-113

Operation of MEFF (multiple effect falling film process) desalination plant
S. Kido 41(1982)127-136

The Courtraulds desalination process
D.C.F. Pratt 42(1982)37-45

Vapor compression distillation
S.J. Senatore 42(1982)153-161

Reliability analysis of reverse osmosis plant
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)291-313

Seawater vs. brackish water desalting: Technology, operating problems and overall economics
P. Glueckstern and Y. Kantor 44(1983)51-60

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel 44(1983)61-72

Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design
V.L. Podberezznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin 45(1983)15-21

Process and layout design of a combined MSF/VTE plant
J. Hapke and B. Uckermann 45(1983)113-114

Design aspects of large sea water reverse osmosis desalination plants
C.D. Hornburg and O.J. Morin, Jr. 45(1983)241-249

Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants
R. Zannoni, A. de Maio, G. Odone and G. Coliva 45(1983)337-344

The Sydney University solar desalination pilot plant design
J. P. Gerofi 45(1983)375-382

Parametric study on seawater reverse osmosis desalting plants
R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen 46(1983)3-15

The Malta seawater reverse osmosis facility
W.T. Andrews, J.H. Sleigh and R.A. Bergman 46(1983)111

Large seawater reverse osmosis plant: Design considerations
M. A. A. Soleman, J. de Graauw and W. van Putten 46(1983)163-170

Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration
C.V. Devmurari and M.V. Chandorikar 48(1983)331-337

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 49(1984)293-319

Basic considerations influencing the choice of materials for thermal seawater desalination plants
R.F. Elsaesser and H.E. Hoemig 49(1984)335-345

Selection of small desalination plants for specific locations: Reverse osmosis, flash distillation, vapour compression
K. Wangnick 52(1985)145-165

Seawater reverse osmosis: an economic alternative to distillation
D.C. Brandt 52(1985)177-186

Seawater desalination by reverse osmosis. Plant design, performance data, operation and maintenance (Tanajib, Arabian Gulf Coast)
W. Heyden 52(1985)187-199

Abu Dhabi solar distillation plant
A. M. El-Nashar and K. Ishii 52(1985)217-234

Design of the 50,000 m^3/d treatment plants for Qasim, S.A., desalination of brackish water at 99% recovery
P.J. de Moel, R.F.M. de Gier and G. Onderdelinden 55(1985)343-356

Analysis of desalination alternates for phosphoric acid plant in Tunisia
C.D. Hornburg 55(1985)571-587

Hybrid desalting technology maximizes recovery
H. Kohli, D. Emmermann, R. Kadaj and H. Said 56(1985)61-68

Desalination plant at KWK Debiensko, Poland: Advanced mine drainage water treatment engineering for zero discharge
J. Masarczyk, C.-H. Hansson, R.L. Solomon and B. Hallmans 75(1989)259-287

Parametric cost analysis study of seawater reverse osmosis systems design in Kuwait
A.A.J. Al-Zubaidi 76(1989)241-280

Operating experiences in a sea water reverse osmosis plant in Gibraltar. (1987-1990)
E.G. Darton and A.G. Turner 82(1991)51-69

Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m^3/day RO plant
J.F. Henriquez, J. Bonet and J. Etxaniz 82(1991)71-106

Experiments on the design, installation and operation of desalination plants by O.I. - Inalsa I
J.M. Sanchez and J.M. Garcia 82(1991)119-129

A knowledge based system for the design of RO desalination plants
K. Papafotiou, D. Assimacopoulos and D. Marinos-Kouris 82(1991)131-140

Baja California desalination project. Feasibility study report: Large scale dual purpose hybrid desalination plant
D.C. Nerell, J.A. Statton and G. Borsteins 88(1992)123-143

Some design and monitoring criteria for large/medium MSF plants
A. Massarani and F. Fusetti 92(1993)377-388

Design and operation of a 5 ml/d RO desalination plant in arid Australia
B. Watson, G. Marks, E. Gabbrielli and L. Chapple 96(1994)369-377

Seawater desalination plant "Sirte" - an example for an advanced MSF design
G.F. Tusel, R. Rautenbach and J. Widua 96(1994)379-396

Usefulness of networking in membrane plant design and operation
J.E. Burke, M. Mickley, J. Truesdall and R.L. Hamilton 102(1995)77-80

Plant engineering aspects

Status of the Yuma desalting plant
L.A. Haugseth 27(1978)157-174

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

Engineering management of nuclear desalination plants — A case study, Saudi Arabia
A.F. Abdul-Fattah and A.A. Husseiny 27(1978)283-331

Multiattribute decision analysis of desalination plant engineering management options with applications to Saudi Arabia
A.F. Abdul-Fattah and A.A. Husseiny 28(1979)253-282

Analysis of very large MSF desalination units
D. Barba, A. Germana and G. Tagliaferri 30(1979)553-

Investigations in regard of MSF desalination plant engineering during 7 years of operation
H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich 31(1979)159-169

Engineering and process experience deriving from various solutions in designing MSF evaporators
D. Barba et al. 31(1979)171

Analysis of large desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 33(1980)1-10, Err. 30(1979)553

Engineering management of desalination plants in Saudi Arabia using fuzzy decision analysis
A.F. Abdul-Fattah 37(1981)343-350

Handling of fuzzy decisions in the engineering management of large desalination plants
A-R. F. Abdul-Fattah 39(1981)489-490

Floating desalination plants. An engineering, operating and economic appraisal
M. Fadel, K. Wangnick and N.M. Wade 45(1983)49-63

Plant environmental aspects

Desalination in the development of Libya. Problems of implementation and impact on environment
H. El-Hares and M. Aswed 20(1977)249-256

Environmental and engineering problems of an agro-industrial complex for the North Eastern region of the Mediterranean
F. Elashmawi and A.A. Husseiny 20(1977)289-298

Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region
D. L. Brining, W. C. Lester, W. N. Jessee, D. A. O'Leary, S. Bourgeois and M. S. A. Salam 39(1981)255-260

Impact of reject water from the desalination plant on ground water quality
N.S. Rao, T.N.V. Rao, G.B. Rao and K.V.G. Rao 78(1990)429-437

Plant inspection

Seawater desalting by electrodialysis
T. Miwa, D.R. Jordan and W.F. McIlhenny 20(1977)375-384

Bluehills desalination plant — Engineering investigation
O.J. Morin 22(1977)13-20

Salbukh reverse osmosis plant on stream
B. Ericsson 33(1980)109-113

Plant installation

Desalination plants with a capacity of more than 95m^3/d installed by Japanese manufacturers (as of January 1, 1984)
J. Hori 52(1984)87-93

Inventory of land-based desalting plants installed by Japanese manufacturers as of January 1, 1986
J. Hori 60(1986)267-285

Plant instrumentation

Instrumentation problems in Libyan desalination plants
H. El-Hares 39(1981)33-34

Control and instrumentation experience at Lok on Pai MSF seawater desalination plant
A.R. George and B. Tyler 39(1981)35

Plant location

Desalination and the environment *(in French)*
J.-J. Libert, A. Maurel and R. Lucas 30(1979)427-435

Desalination at inland sites
A. Gendel 40(1982)135-142

Plant maintenance

Maintenance problems of the electrodialysis plants in Libya
M. Aswed and H. El Hares
27(1978)51-57

Ten years operating experiences at 7.5 mgd commercial desalination plant — Rosarito B. C. Mexico
E.G. Gomez 30(1979)77-90

Eight-year operational experience with a 13,400 m^3/d reverse osmosis desalination plant at Kashima Works of Sumitomo Metals
K. Horio 32(1980)211-220

Seawater reverse osmosis — Statement of the art assessment
S.R. Latour 32(1980)221

Performance of the 12,000 m^3/d seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia, January 1979 through January 1981
A. Muirhead, S. Beardsley and J. Aboudiwan 42(1982)115-128

Operational data analysis of MSF desalination plants. A case study of Jeddah I
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)163-197

Plant operation

History, experience and economics of water production in Kuwait
M.H. Ali El-Saie 1(1966)77-95

Multiple-effect rotating evaporator
L.A. Bromley 1(1966)367-393

Solvent extraction desalination pilot plant
R.R. Davison, W.B. Harris and W.H. Smith, Jr. 3(1967)17-26

Operating experiences with mobile distillation plants, with particular reference to the avoidance of calcium sulphate scale
H.M. Peacock 3(1967)280-294

Demineralization of sea water by electrodialysis
T. Matsuda, S. Ogama and Y. Onoue 3(1967)295-303

Prediction of large desalting plant availability factor
N. Arad, S.F. Mulford and J.R. Wilson 3(1967)378-383

Possibilities of the osmosis process *(in French)*
D. Callies, A. Clayer and J. Orssaud 4(1968)55-60

Characteristics of dual-purpose plants producing desalted water and electricity from the same thermal energy source *(in French)*
M. d'Orival 4(1968)66-79

The Eilat 1,000,000 gpd multi-stage flash distillation plant operating experience
N. Zuckerman 4(1968)167-197

Scope and development of solar stills for water desalination in India
S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar 5(1968)64-74

The Eilat 1,000,000 GPD multi-stage flash distillation plant — Third year of operation
N. Zuckerman 6(1969)309-317

Nuclear industrial desalination plant with fast neutron reactor at Shevchenko
E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S.

Reverse osmosis pilot plant operation: a spiral module concept
T.J. Larson 7(1970)187-199

Comparison of practical operating data and computer simulation of seawater reverse osmosis plant
A.S. Hodgson 11(1972)113-123

Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis
L.E. Stamets, L.T. Fan and C.L. Hwang 11(1972)239-254

Construction and initial operation of the VTE/MSF module
C. Grua 14(1974)1-10

Sea water desalination by reverse osmosis. Recent experience
P. Treille and J.M. Rovel 14(1974)21-31

The use of reverse osmosis for the treatment of Rhine river water. Part I
D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw 14(1974)163-172

Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed
D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard 15(1974)325-341

Sludge depositions in a long tube-high flow MSF test plant
T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka 17(1975)87-95

Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants
D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri 19(1976)15-24

Off shore sea water reverse osmosis plants
H. Lerat 19(1976)201-210

Direct contact condensation multistage flash distillation
A. Kogan 19(1976)299-307

Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA
K.G. Patel, F.L. Harris and K.C. Channabasappa 19(1976)381-388

Design of reverse osmosis systems for commercial seawater desalination
D.C. Bullock 19(1976)397-404

600,000 GPD (I) reverse osmosis for 15,000 mg/l lake water
R.A. Tidball 20(1977)19-26

Review of desalination plant operating experiences
A.B. Steinbruchel 20(1977)43-52

Design parameters and operation of small and medium size municipal reverse osmosis in North America
E.W. Johansen, Jr. and D.C.M. Crabbe 20(1977)53-60

Design and operation of a 5000 m^3/d reverse osmosis dual product plant
R. Blevitt and J.L. Hooper 20(1977)119-142

The design, construction, testing and operation of a large scale prototype desalting plant in Israel
A.Z. Barak and W.L. Barnes 20(1977)163-172

A water and power installation for Lanzarote, Canary Islands, Spain
F. Krebs 20(1977)173-191

Two detailed case studies of large Libyan desalination plants and their influence on development
M. Aswed and H. El-Hares 20(1977)239-247

Desalination in the development of Libya. Problems of implementation and impact on environment
H. El-Hares and M. Aswed 20(1977)249-256

The Hong Kong 40 mgd desalination plant: Its design features and performance during the first year of operation
F.C. Wood, H.J. Woodthorpe and Y.N. Wu 20(1977)319-334

Long-term experiences of 3.5 mgd ROGA-spiral reverse osmosis installation
Y. Taniguchi 20(1977)353-364

Seawater desalting by electrodialysis
T. Miwa, D.R. Jordan and W.F. McIlhenny 20(1977)375-384

Operating characteristics of 30,000 t/d module MSF test plant
K. Yokoyama, Y. Ikenaga and T. Yamamoto 22(1977)151-158

Experiences on VTE distillation plants in Japan
H. Satone, S. Funahashi and S. Inoue 22(1977)169-179

Practical behaviour of electrodialysis and reverse osmosis plants in Libya
H. El-Hares and M. Aswed 22(1977)291-298

Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia
J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi 22(1977)299-309

5,000,000 imp. gal/day sea water desalination plant for the Ministry of Electricity and Water, Government of Kuwait
H. Harashina 22(1977)425-434

Second report on the operation of a 75,000 gpd seawater reverse osmosis plant (Ras Al Mishab, Saudi Arabia)
T. Dupee and W. Andrews 22(1977)445-455

Four years experience in operation of a 1500 m^3/d RO plant
J.M. Rovel 22(1977)485-493

New electrodialyser system with automatic chemical cleaning
M. Kishi, S. Serizawa and M. Nakano 23(1977)203-212

Some special design features of Kuwait MSF plants
Z.M. Abu-Eid and A.G. Fakhoury 23(1977)263-284

Design and operation of a turnkey 17,000,000 gpd reverse osmosis water treatment plant: Buwayb, Riyadh V, Saudi Arabia
W.S. Finlay and P.V. Ferguson 23(1977)389-399

Second generation low temperature vapor compression plants
D. Hoffman 23(1977)449-454

Orange County's 5 mgd reverse osmosis plant
N.L. Richardson and D.G. Argo 23(1977)563-573

Reverse osmosis pilot plants performance in brackish water desalination
G. Boari, C. Carrieri, P. Mappelli and M. Santori 24(1978)341-364

Application of membrane processes for water supply in Israel
P. Glueckstern, Y. Kantor and M. Wilf 24(1978)365-376

Seawater desalination by electrodialysis
T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa 25(1978)1-7

The MSF desalination process: A comparison of acid and polyphosphate treatment plants
K. Hill 25(1978)111-122

Seawater reverse osmosis system projects, a manufacturer's viewpoint
B. Andrews 25(1978)227-231

Qatar desalination plants
D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti 26(1978)109-116

Design and operation of 2 x 2.5 mgd Bahrain desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 26(1978)117-125

Five years of operating experience of large scale distillation test plant made of carbon steel
H. Tabata and R. Yokoyama 27(1978)3-8

Maintenance problems of the electrodialysis plants in Libya
M. Aswed and H. El Hares 27(1978)51-57

Multiattribute decision analysis of desalination plant engineering management options with applications to Saudi Arabia
A.F. Abdul-Fattah and A.A. Husseiny 28(1979)253-282

Reverse osmosis: Field trials of a GKSS plate module plant on Baltic Sea water
H. Finken, J. Kaschemekat and J. Mohn 29(1979)285-294

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj 29(1979)319-329

Environmental problems of siting and operating desalination plants in the United States
M. Morris 30(1979)3

Ten years operating experiences at 7.5 mgd commercial desalination plant — Rosarito B. C. Mexico
E.G. Gomez 30(1979)77-90

Operating experiences of a 15,000 cubic meter per day municipal desalting plant at Corfu, Greece
J.W. Arnold 30(1979)145-153

Difficulties encountered in executing and running of waste water plants in developing countries
M. Hares and M.A. Dayem 30(1979)175-185

Field testing and economic evaluation of RO seawater technology
P. Glueckstern, M. Wilf and Y. Kantor 30(1979)235-245

Environmental problems of siting and operating desalination plants in the United States
F. Carlson 30(1979)425

Desalination and the environment *(in French)*
J.-J. Libert, A. Maurel and R. Lucas 30(1979)427-435

The role of consultant engineers on personnel training and desalination plant operation
A. De Maio, F. Fioravanti and G. Odone 30(1979)439-442

Outline of a training manual for desalination plant operators
R. Bakish and E. Catanzaro 30(1979)461-466

Investigations in regard of MSF desalination plant engineering during 7 years of operation
H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich 31(1979)159-169

Operating experience of a large multistage flash evaporator in Sultanate of Oman
S. Chalchal 31(1979)333-340

Solar distillation plant at Awania, Gujarat, India
G.L. Natu, H.D. Goghari and S.D. Gomkale 31(1979)435-441

A comparison of the operating characteristics of conventional multi-stage flash evaporation and multi-stage flash/fluidized bed evaporation
G. Spanhaak 31(1979)511-519

Advanced treatments. Nice Lingostiere treatment plant
M. Picard, G.M. Faup and J.M. Rovel 32(1980)149-153

Design and operation of 800,000 gpd reverse osmosis seawater system
R. Quinn 32(1980)179

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball and D. Kuiper 32(1980)199

Off-shore inverse osmosis without chemical pretreatment: balance of years of experience and extension to land-based units *(in French)*
H. Lerat 32(1980)201-210

Eight-year operational experience with a 13,400 m^3/d reverse osmosis desalination plant at Kashima Works of Sumitomo Metals
K. Horio 32(1980)211-220

Seawater reverse osmosis — Statement of the art assessment
S.R. Latour 32(1980)221

Salbukh reverse osmosis plant on stream
B. Ericsson 33(1980)109-113

Reverse osmosis in the desalination of brackish water and sea water
L. Ludwig 36(1981)153-178

Industrial operating experience of more than three years with a 1440 m^3/day Snamprogetti VTE
P. Tiraboschi 38(1981)21-28

Advantages of the ejectocompression process in sea water desalination
M. Lucas and S. Hessemans 38(1981)57-63

Desalination by vapor compression
W. Bulang 38(1981)85-97

Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant
S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini 38(1981)185-199

Present trends in materials selection and performance in multi-stage flash desalination units
J. D. Birkett and E. H. Newton 38(1981)207-222

Pretreatment and operating experience on reverse osmosis plant in the Middle East
D. Pepper 38(1981)403-417

Desalting 36,000 ppm well water with electrodialysis: a 5-year report
H. C. Valcour, Jr. and K. D. McElhinney 38(1981)529-536

Treating Bahrain Zone C groundwater using the EDR process
D.R. Brown 38(1981)537-547

Design and operation experience with solar powered multistage desalination plants
R. Kriesi 39(1981)109-116

Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience
G. Petersen, S. Fries, J. Mohn and A. Müller 39(1981)125-135

Reliability of the Jeddah seawater RO desalination plant based upon operations experience
I.I. Kutbi, A.M. Metwally, Z.A. Sabri and A.A. Husseiny 39(1981)179-191

Performance evaluation of MSF plants, the case of Jeddah plants
I. I. Kutbi, Z. A. Sabri and A. A. Husseiny 39(1981)193-204

Operational experience of 2 x 11,500 m^3d MSF seawater desalination plant
S. Khalaf, M. Alarrayedh and A.M. Alawadi 39(1981)219-227

Operating experience on RO sea water desalination plant at Chigasaki Laboratory
Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama 39(1981)413-421

Operation of a horizontal tube brine concentrator
J. Weinberg and Y. Rotstein 40(1982)159-168

The joint U.S.-Israel desalination project status report and the impact of rising energy costs on the program
A. Peled and J. Finke 40(1982)217-223

Operating experience of MSF units in Saudi Arabia
N. Nada 41(1982)57-69, Err. 41(1982)337

The operation of sea water distillation plants in relation to materials selection
R. Heaton and T. A. Douglas 41(1982)71-80

Reliability of MSF processes based on operation history
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 41(1982)81-113

Operation of MEFF (multiple effect falling film process) desalination plant
S. Kido 41(1982)127-136

World's first solar powered reverse osmosis desalination plant
W.W. Boesch 41(1982)233-237

Short-term low as well as high temperature operation of an MSF plant using Belgard EVN as a scale control additive
F. H. Butt and A. H. Bou-Hassan 42(1982)79-86

Operational data analysis of MSF desalination plants. A case study of Jeddah I
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)163-197

Seawater vs. brackish water desalting: Technology, operating problems and overall economics
P. Glueckstern and Y. Kantor
44(1983)51-60

One year of operation of Israel Desalination Engineering's multi-effect distillation U.S. Virgin Islands
U. Fisher 44(1983)73-84

Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant
B. Ohlemann and D.K. Emmermann
45(1983)39-47

Floating desalination plants. An engineering, operating and economic appraisal
M. Fadel, K. Wangnick and N.M. Wade 45(1983)49-63

Application of the multi-effect process at high temperature for large seawater desalination plants
B. Franquelin, F. Murat and C. Temstet 45(1983)81-92

Construction and commissioning of 6 x 23,000 t/d MSF plant, Al Jobail Phase 1
D.S. Khumayyis and M. Ohtani
45(1983)155-165

Operating experience of desalination units in Schevchenko
J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
45(1983)167-174

Large scale desalination by vapor compression
W. Bulang 45(1983)263

Five years experience in VTE industrial operations and their design improvements
P. Tiraboschi 45(1983)321-328

Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants
R. Zannoni, A. de Maio, G. Odone and G. Coliva 45(1983)337-344

Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements
R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura
46(1983)57-66

The Malta seawater reverse osmosis facility
W.T. Andrews, J.H. Sleigh and R.A. Bergman 46(1983)111

Ashdod multi-effect low temperature desalination plant. Report on year of operation
U. Fisher, A. Aviram and A. Gendel
55(1985)13-32

Desalination by mechanical vapour compression. Operational results after one year operation of the Flamanville unit. Comparison with other desalination processes by evaporation
M. Lucas and F. Murat
55(1985)33-42

Economical evaluation of Alkhobar Phase Two 50 MIGPD at three different mode of operations
N. Nada, D. Khumayyis and M. Al Hussain 55(1985)43-54

Construction and operation of 46,000 m^3/ day reverse osmosis desalination plant, RA'S Abu Jarjur, Bahrain
M. Al-Arrayedh, B. Ericsson and M. Ohtani 55(1985)319-342

The Malta seawater RO facility
W. T. Andrews and R. A. Bergman
60(1986)135-144

The Malta seawater RO facility — Update on the first two years operation
W.T. Andrews 60(1986)145-150

Review of large desalination plant experience in the Americas
R.M. Ahlgren and I. Smith
73(1989)247-265

Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant
M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai 76(1989)75-88

Experiments on the design, installation and operation of desalination plants by O.I. - Inalsa I
J.M. Sanchez and J.M. Garcia
82(1991)119-129

Considerations in assessing rehabilitation of damaged 20 mgd Shuwaikh 'D' plants, Kuwait
B.M. Watson 88(1992)145-160

Maintenance philosophy and approach for a dual purpose plant
S. Khalaf and A. Al Alawi
96(1994)273-282

Design and operation of a 5 ml/d RO desalination plant in arid Australia
B. Watson, G. Marks, E. Gabbrielli and L. Chapple 96(1994)369-377

Plant optimization

Relationship between storage capacity and load factor of a desalination plant
A.R. Golze 1(1966)267-290

Choice and optimization of eventual heat sources for large desalting plants in Israel
J. Adar 3(1967)37-45

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Optimization of flash distillation plants for sea-water conversion
B. Kunst 3(1967)195-202

Questions of sea water desalination plant design
W. Fichtner 3(1967)252-258

The choice of basic parameters of a multi-stage flash plant for sea water desalination
L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Vicebatt and V.M. Lavygin
4(1968)94-102

Selection of parameters of an atomic energy plant with high productivity distillation of sea water
L.S. Sterman, N.A. Mozharov and V.V. Gubenko 5(1968)95-106

Evaporation for desalination. Improved multistage flash (MSF) processes
D.F. Othmer 6(1969)13-24

Optimization of basic parameters of thermal desalting plants with adiabatic evaporation
A.I. Korneichev, A.V. Izvekov and A.A. Myagkov 7(1970)179-186

Hyperfiltration studies XVIII. The optimization of two-stage plants for desalination of brackish waters
J.J. Perona, T.W. Pickel and K.A. Kraus 8(1970)73-91

Optimization of an electrodialysis plant
G. Belfort and J.A. Daly
8(1970)153-166

The role of turbulence promoters in hyperfiltration plant optimizatlon
D.G. Thomas, W.L. Griffith and R.M. Keller 9(1971)33-50

Optimum conjunctive use of a dual-purpose desalting plant and a surface water reservoir
F. Mobasheri and R. Harboe 9(1971)141-153

The simulation and optimization of single effect multi-stage flash desalination plant
J.H. Beamer and D.J. Wilde 9(1971)259-275

Effect of brine disposal cost on hyperfiltration plant optimization
W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr. 11(1972)91-112

Multistage hyperfiltration plants for the desalination of brackish waters
J.J. Perona and R.S. Dillon 11(1972)149-163

Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization
L. T. Fan, C. L. Hwang, N. C. Pereira, L. E. Erickson and C. Y. Cheng 11(1972)217-238

Sea water desalination by reverse osmosis. Recent experience
P. Treille and J.M. Rovel 14(1974)21-31

Desalting geothermal brines
A.D.K. Laird and B.W. Tleimat 19(1976)309-316, Err. 21(1977)234

Vapor compression evaporation for inland desalting
O.E. Kirchner 22(1977)31-40

Some design aspects deduced from the thermodynamic calculations for MSF desalination plants
J. Lammers, G. Scheffler and P. Monheim 22(1977)385-393, Err. 23(1977)588

High recovery in the Yuma desalting plant
J.W. Kaakinen, R.J. Eisenhauer and C. van Hoek 23(1977)357-366

On the optimization of systems with water reuse
Y.M. El-Sayed 23(1977)515-525

Reverse osmosis pilot plants performance in brackish water desalination
G. Boari, C. Carrieri, P. Mappelli and M. Santori 24(1978)341-364

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt 30(1979)101-126

Optimization of a dual purpose plant for seawater desalination and electricity production
K. Kuenstle and V. Janisch 30(1979)555-569

Analysis of water and power costs by various methods, based on Jeddah IV
G.F. Tusel and I. Kamal 38(1981)145-

Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements
L. F. Giannuzzi, O. E. Horn and M. Nakhamkin 39(1981)437-446

Optimization in dual purpose plants
F. Cantera Palacios and J. Ma. Sánchez-Sánchez 45(1983)109-110

Computer code for optimizing MSF desalination plant
H. T. A. El-Dessouky and G. M. R. Assassa 45(1983)111-112

Plant performance

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes
X. Ibarra-Herrera 30(1979)91

Jeddah seawater reverse osmosis installation
C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton 30(1979)259-281

Performance study of RO systems in Saudi Arabia
R.R. Doelle and C.K. Wojcik 30(1979)315

Total desalination of brackish water
R. Rautenbach and K.H. Henne 30(1979)581

Assessment of MSF-evaporator design with reduced cooling water requirements
K. Genthner and M. El-Allawy 31(1979)57-68

The use of acid and additive. Practical experiences in a multistage flash plant
J. Stewart, R. Bom and M.A. Finan 31(1979)299-307

Technical and economical evaluation of an MSF solar energy powered desalination plant
S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito 31(1979)443-455

A comparison of the operating characteristics of conventional multi-stage flash evaporation and multi-stage flash/fluidized bed evaporation
G. Spanhaak 31(1979)511-519

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project
R. Manjarrez and M. Galván 31(1979)545-554

Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait
F.H. Butt and A.H. Bou-Hassan 36(1981)129-136

Pilot and full-scale research on the vapour compression desalination process
M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa 37(1981)257-268

Vapor compression distillation with maximum use of waste heat
S.J. Senatore 38(1981)3-12

An advanced barge mounted VTE/VC for the desalination of seawater
D.K. Emmermann 38(1981)13-20

An advanced barge mounted VTE/VC for the desalination of seawater
D.K. Emmermann 38(1981)13-20

The performance of the 12,000 m^3/day seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia
A.M. El-Nashar and I. Kutbi 38(1981)399

Performance evaluation of MSF plants, the case of Jeddah plants
I. I. Kutbi, Z. A. Sabri and A. A. Husseiny 39(1981)193-204

Performances study of water desalination methods in Saudi Arabia
A.G. Maadhah and C.K. Wojcik
39(1981)205-217

High temperature distillation process with sea water feed decalcification pretreatment
D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
40(1982)347-355

Performance evaluation and process design of an electrodialysis plant by overpotential measurements
R. Passino, C. Marra, A. Rozzi and G. Tiravanti 41(1982)181-197

Desalination of brackish water by electrodialysis
W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan 42(1982)97-105

Performance of the 12,000 m^3/d seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia, January 1979 through January 1981
A. Muirhead, S. Beardsley and J. Aboudiwan 42(1982)115-128

Vapor compression distillation
S.J. Senatore 42(1982)153-161

Calculation of the expected performance of reverse osmosis plants
C.W. Saltonstall, Jr. and R.W. Lawrence 42(1982)247-253

One year of operation of Israel Desalination Engineering's multi-effect distillation U.S. Virgin Islands
U. Fisher 44(1983)73-84

Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant
B. Ohlemann and D.K. Emmermann 45(1983)39-47

Application of the multi-effect process at high temperature for large seawater desalination plants
B. Franquelin, F. Murat and C. Temstet 45(1983)81-92

Thermal desalination of sea water in thin film plants
V.N. Slesarenko 45(1983)295-302

Investigation of water desalination by distillation technique
N.M. Sinev, V.G. Shatsillo, V.B. Chernozubov, A.A. Samarkin and J.S. Baranov 45(1983)315-320

Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia
F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani
45(1983)345-355

A model for the fouling of MSF plants based on data from operating units
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 47(1983)37-47

Mathematical model of a mechanical-vapor compression evaporator. Application production of freshwater by seawater desalination. Part II. Numerical exploitation
D. Aussenac, M. Enjalbert and S. Domenech 49(1984)117-139

The integration of a reverse osmosis installation in the fully automated operation of a rural water supply company
F. Bergmann and B. Schuette
49(1984)203-214

Five years operating experience of a 800 cubic meters per day RO seawater desalination plant
S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
54(1985)45-54

Performance of an electrodialysis desalination plant in rural area
P. K. Narayanan, W. P. Harkare, S. K. Adhikary, N. J. Dave, D. K. Chauhan and K. P. Govindan
54(1985)145-150

Improved high temperature MSF evaporator operation for potable water production
D. P. Logan and K. Kuroda
54(1985)361-376

4x6 MIGPD plus lxl MIGPD (acid) plants. Two years' operation results
I. Resini, G. Coliva, A. de Maio and R. Lucenti 54(1985)377-384

Thermal performance of 10 x 5.2 MIGD MSF plants, Al Jobail Phase II
M. Al-Sofi, R.D. Peterson, D.L. Moen, Y. Soejima and H. Sawada
55(1985)357-371

Better MSF plant performance by avoiding tube fouling and debris
H. Boehmer and F.J. Glaze
55(1985)429-439

Desalination of high salinity brackish water. Low pressure reverse osmosis
P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf 58(1986)55-67

Efficient energy utilization in single purpose desalination plants
S.E. Aly 58(1986)99-112

Performance evaluation of SWCC SWRO plants
A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
74(1989)37-50

Operating results and economics of single stage and two stage large size sea water RO systems
S. Kremen, M. Wilf and P. Lange
82(1991)15-30

Sea water applications with FILMTEC reverse osmosis membranes from small to large plants in 10 years
J.A. Redondo and K.F. Frank
82(1991)31-49

Operating experiences in a sea water reverse osmosis plant in Gibraltar. (1987-1990)
E.G. Darton and A.G. Turner
82(1991)51-69

Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m^3/day RO plant
J.F. Henriquez, J. Bonet and J. Etxaniz
82(1991)71-106

The solar thermal desalination research project at the Platforma Solar de Almeria
A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
82(1991)145-152

Performance and reliability of a solar desalination plant during a five-year operating period
A.M. El-Nashar and A.A. Qamhiyeh
82(1991)165-174

Design and performance of solar MSF desalination systems
A. Hanafi 82(1991)175-185

Performance analysis of a solar desalting unit in South Tunisia
M.T. Chaibi, M.J. Safi and M. Hsairi
82(1991)197-205

Scale formation and fouling problems effect on the performance of MSF and RO desalination plants in Saudi Arabia
M. Al-Ahmad and F.A. Aleem
93(1993)287-310

A quarter-century of seawater desalination by large multistage flash plants in Abu Dhabi (Plant performance analysis, assessment, present efforts toward enhancement and future hopes)
D.M.K. Al-Gobaisi 99(1994)483-508

Plants, energy consumption, see Energy comsumption

Plants, installation

Desalination in the Virgin Islands, 1964-1982
O.K. Buros and T. Livingston
45(1983)195-196

Plants, operation

Desalination in the Virgin Islands, 1964-1982
O.K. Buros and T. Livingston
45(1983)195-196

Plants, performance

Desalination in the Virgin Islands, 1964-1982
O.K. Buros and T. Livingston
45(1983)195-196

Plants simulation

An electrical analogue for electrodialysis
G. Belfort and G.A. Guter
5(1968)267-291

Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion
C.J. Huang, H.M. Lee and A.E. Dukler 6(1969)25-56

The simulation and optimization of single effect multi-stage flash desalination plant
J.H. Beamer and D.J. Wilde
9(1971)259 -275

Comparison of practical operating data and computer simulation of seawater reverse osmosis plant
A.S. Hodgson 11(1972)113-123

Assessment of MSF-evaporator design with reduced cooling water requirements
K. Genthner and M. El-Allawy
31(1979)57-68

A control system for multi-stage flash desalination plants
R. Greffrath and F. Mayinger
31(1979)71-83

Modular program for design and simulation of desalination plants
R. Rautenbach and H. G. Büchel
31(1979)85

Optimal selection of major equipment in dual purpose plants
E. Gabbrielli 36(1981)1-23

Development of SOLAR DESAL, a code for modeling, simulation and design of solar desalination systems
T. E. Dix 39(1981)169-170

Mathematical model of a mechanical vapour compression evaporator. Application to seawater desalting. Part I. The model settlement
D. Aussenac, S. Domenech and M. Enjalbert 41(1982)137-169

Simulation of MSF desalination plants
A. M. Omar 45(1983)65-76

Computer simulations of multiple-effect FFE-VC systems for water desalination
G. Aly 45(1983)119-131

Dynamic stability of MSF desalination plants
G.M.R. Assassa and H.T.A. El-Dessouky 45(1983)133

Plastics

Influence of some processing variables on the properties of cellulose acetate membranes. III. Temperature dependence of the desalination performance of membranes plasticized by various plasticizers
D.V. Mehta and E.A. Meinecke
10(1972)369-382

Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics
K.R. Fröhner 21(1977)147-164

Multi-effect desalination plant using a plastic heat transfer surface *(in French)*
F. Lauro 31(1979)221-231

Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes
J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr. 37(1981)307-311

The Courtraulds desalination process
D.C.F. Pratt 42(1982)37-45

Corrosion-free collectors with selectively coated plastic absorbers
M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr 109(1997)149-155

Plate and frame system

An alternative design concept in reverse osmosis desalination
K.W. Böddeker, W. Hilgendorff and J. Kaschemekat 20(1977)155-162

Experience with desalination of sea and brackish water using minimum pretreatment and high temperature
W.K. Nielsen 46(1983)67-79

Testing RO desalination at very high recoveries in the Arabian Gulf (GKSS plate system)
K. Scharff 60(1986)117-133

Plate evaporator/condenser

Development of a plate evaporator/condenser for the mechanical vapour compression process
N.-E. Clausen 81(1991)399-406

Plate modules

Verification of design criteria, experience and results obtained with the plate module line at DROP, Kuwait
W. Nieszen 63(1987)247 -262

Plugging

Reduction of polarization in electrodialysis by ion-conducting spacers
O. Kedem 16(1975)105, Err. 17(1975)143

Ion conducting spacer for improved electrodialysis
O. Kedem and Y. Maoz
19(1976)465-470

Polarization in unit cells
G. Garza 24(1978)211-223

Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system
O. Kedem, I. Rubinstein and L.A. Segel 27(1978)143-156

Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities
J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter 48(1983)293-297

Some observations on the considerable variability of silt density index results due to equipment, filter and operator variables
N. R. G. Walton 61(1987)201 -210

An investigation of the modified fouling index as a test for plugging potential of pretreated seawater
D. R. van der Vaart and E. P. Stahel 68(1988)45 -56

Polarization

Characterization of ion-exchange membranes by polarization curves
W. Kooistra 2(1967)139-147

Polarization at ion exchange membrane solution interfaces
K.S. Spiegler 9(1971)367-385

Polarization at ion-exchange membranes in electrodialysis
C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler 10(1972)181-214

Overpotential phenomena on charged membranes in flow conditions Transport mechanism in polarization conditions with KCI and HCI solutions and analysis of boundary layer overpotentials.
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Polarization effects at charged membranes
O. Kedem and I. Rubinstein 46(1983)185-189

The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes
G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard 46(1983)435

Polarization studies on interpolymer ion exchange membranes
V.K. Indusekhar and N. Krishnaswamy 48(1983)267-279

Electrochemical and spectroscopic studies in dezincification of alpha-brass. Part II. Effect of polarization on the dezincification process
T.M.H. Saber and A.A. El-Warraki 93(1993)473-486

Ultrafiltration and reverse osmosis in unstirred batch cell of charged solutes (protein, salts) with total retention
I. Boulanouar, S. Nicolas and B. Bariou 104(1996)83-93

Pollution

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Ultrafiltration processes for pollution control and chemical reuse in the tanning industry
E. Drioli and B. Cortese 34(1980)131-139

Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions
G. Hamer, T. Egli and N. Al-Awadhi 72(1989)31-65

Zero discharge/water reuse. The opportunities for membrane technologies in pollution control
P.S. Cartwright 83(1991)225-241

The influence of pollution on desalination
S. Khorfan 93(1993)443

Electricity and water production in the Emirate of Abu Dhabi and its impact on the environment
A.M. Shams El Din, S. Aziz and B. Makkawi 97(1994)373-388

Control of the nutrient pollution discharge from the Vistula River Basin in Poland
B. Ericsson and B. Hallmans 98(1994)185-197

Studies on the vaporization mechanisms of organic pollutants in an evaporator
K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty 103(1995)177-187

Removal of volatile organic compounds by ultrafiltration
R. Singh 104(1996)203-214

Poly(vinyl alcohol)

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-*alt*-maleic anhydride)
E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)37-54

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate
E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)115-132

Poly(vinyl sulfonate)

Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure

S. Sarig, F. Kahana and R. Leshem 17(1975)215-229

Polyacrylate additives

Polymers that inhibit the deposition of calcium sulphate
D.H. Solomon and P.F. Rolfe 1(1966)260-266

Scale control by polyacrylates: The effects of molecular weight and of traces of metals
F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor 8(1970)167-175

Scale control by polyacrylates: Relation to crystallization inhibition
B.R. Smith and F. Sweett 9(1971)277-283

Scale reduction in saline water conversion
E.I. Shaheen and S.N.S. Dixit 13(1973)187-206

Control of biological fouling in seawater reverse osmosis desalination
H. Winters, I. Isquith, W.A. Arthur and A. Mindler 47(1983)233-237

Polyamide

An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins
B. A. Bolto, K. H. Eppinger, M. B. Jackson and R. V. Siudak
42(1982)273-290

New heterocycles for ultrafiltration membranes
H. Perrey and K. Hildenbrand
51(1984)45-54

Synthesis and evaluation of poly(*m*-phenylene isophthalamide) as a reverse osmosis membrane
S.V. Joshi and A.V. Rao
78(1990)355-362

Chlorine degradation of aromatic polyamides
S. Avlonitis, W.T. Hanbury and T. Hodgkiess 85(1992)321-334

Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol
E. Oikawa, M. Shingai, K. Motomi and T. Aoki 101(1995)69 -77

Polycarboxylates

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

The influence of various polyelectrolytes on the precipitation of gypsum
M.P.C. Weijnen and G.M. van Rosmalen 54(1985)239-261

Aspects of additives in precipitation process: performance of polycarboxylates in gypsum growth prevention
M.C. van der Leeden and G.M. van Rosmalen 66(1987)185 -200

Polyelectrolyte additives

Polymers that inhibit the deposition of calcium sulphate: some interesting conductance observations
P.F. Rolfe 1(1966)359-366

Scale prevention by addition of polyelectrolytes
B.R. Smith 3(1967)263-268

Polyelectrolyte membranes

Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (1)
K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor 1(1966)225-230

Dynamically formed polyelectrolyte membranes on partially cured cellulose acetate
G. Tanny and J. Jagur-Grodzinski
13(1973)53-62

The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid)
A.J. van Reenen, N.A. Dowler and R.D. Sanderson 69(1988)1-8

Ion passages in the hyperfiltration of mixed co-ion electrolyte solutions by a membrane containing fixed charges
K.S. Menon and H.G. Spencer
69(1988)115-123

Polyetherurethanes

Diffusion and sorption of water in moderately hydrophilic polymers: From segmented polyetherurethanes to poly-3-hydroxybutyrate
A.L. Iordanskii, L.P. Razumovskii, A.V. Krivandin and T.L. Lebedeva
104(1996)27-35

Polymaleic acid additives

Ecotoxicology of Belgard EV®
F. Korte 30(1979)411-424

The use of acid and additive. Practical experiences in a multistage flash plant
J. Stewart, R. Bom and M.A. Finan
31(1979)299-307

Operating experience of a large multistage flash evaporator in Sultanate of Oman
S. Chalchal 31(1979)333-340

Polymer coatings

Supplemental polymer coatings in reverse osmosis membrane improvement and regeneration
G. L. Dalton, H. S. Pienaar and R. D. Sanderson 24(1978)235-248

Anticorrosion coatings for equipment and pipelines of desalting plants
V. G. Shigorin 44(1983)277-282

Polymer films

Interaction between water and polytrans-2,5-dimethylpiperazin thiofurazanamide films
M. Pegoraro and A. Penati
48(1983)189-205

A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients
B. Marcandalli, E. Selli, R. Tacchi, I. R. Bellobono and G. Leidi
51(1984)113-122

Polymer membranes

Scale control by polyacrylates: The effects of molecular weight and of traces of metals
F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor 8(1970)167-175

The effect of pressure on the bulk polymer microstructure in cellulose acetate reverse osmosis membranes
G. Arneri 36(1981)99-104

A physicochemical approach for the choice of polymeric membrane materials for water desalination by reverse osmosis
T. Matsuura, Y. Taketani and S. Sourirajan 38(1981)319-337

Optimal conditions for obtaining polymeric membranes in binary systems: a numerical analysis
C. Castellari and S. Ottani
49(1984)141-152

Effect of crystallinity and swelling on the permeability and selectivity of polymer membranes
J.G.A. Bitter 51(1984)19-35

Modification of cellulose acetate by propylene oxide
S. S. Mahajan, M. B. Sabne, K. B. Gujar and N. D. Ghatge
52(1985)327-333

The application of membranes in environmental protection
Liu Ting-hui 62(1987)149-164

Selective removal of metal ions from ground water by polymeric binding and microfiltration
K. Volchek, L. Keller, D. Velicogna and H. Whittaker 89(1993)247-262

Ultrafiltration as a tertiary treatment: Joint research program on membranes
V. Gadani, R. Irwin and V. Mandra
106(1996)47-53

Ultrafiltration plant for olive vegetation waters by polymeric membrane batteries
R. Borsani and B. Ferrando
108(1996)281-286

Electrokinetic characterization of polyethersulfone UF membranes
L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani 109(1997)253-261

Polymer-water interaction

Polymer-water interaction and its relation to reverse osmosis desalination efficiency
H. Strathmann and A.S. Michaels
21(1977)195-202

Interaction between water and polytrans-2,5-dimethylpiperazin thiofurazanamide films
M. Pegoraro and A. Penati
48(1983)189-205

Polymeric additives

Toxicological aspects of scale preventative agents used in desalination equipment for drinking water by desalination
R. Leimgruber 30(1979)615-620, Err. 30(1979)401

25 years experience in the development and application of scale inhibitors
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
31(1979)243-255

Morphology of inhibitor-treated $CaCO_3$ precipitate
G. Wilken 33(1980)201-210

Structure/performance relationships of high-temperature MSF scale control additives
S.W. Walinsky, B. J. Morton and J.J. O'Neill 38(1981)203

Polymers

Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow
R.F. Probstein, J.S. Shen and W.F. Leung 24(1978)1-16

Polypiperazinamides: New polymers useful for membrane processes
P. Parrini 48(1983)67-78

Improved antiscaling treatment for desalination plants
P. Zini, R. Zannoni and R. Lucenti
66(1987)285-298

Hydrophilic membranes for pervaporation: An analytical review
S.I. Semenova, H. Ohya and K. Soontarapa 110(1997)251-286

Polymers, reverse osmosis see Reverse osmosis Membranes

Polyureas

New heterocycles for ultrafiltration membranes
H. Perrey and K. Hildenbrand
51(1984)45-54

Polyurethane

Study of polyurethane foam for tubular membrane support *(in Spanish)*
J.A. Septién and J.F. del Valle
19(1976)405-409

Polyvinyl alcohol

Water-vapor permeability of polyvinyl alcohol films
Yu Xianda, Wang Anlai and Cao Suqin 62(1987)293 -297

Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes
R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen 90(1993)15-29

Pore flow models

On pore flow models for reverse osmosis desalination
M.N. Sarbolouki and I.F. Miller
12(1973)343-359

Polysulfone membranes. II. Performance comparison of polysulfone-poly(N-vinyl-pyrrolidone) membranes
C.M. Tam, T.A. Tweddle, O. Kutowy and J.D. Hazlett 89(1993)275-287

Pore size

The equivalent pore radius of dense cellulose acetate membranes
E. Glueckauf and P.J. Russell
8(1970)351-357

Investigation of pore structure of ion exchange membranes
I. Dobrevsky and A. Zvezdov
28(1979)283-289

Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface
Y. Taketani, T. Matsuura and S. Sourirajan 46(1983)455-466

New insights into the structure of microporous membranes obtained using a new pore size evaluation method
M.G. Katz and G. Baruch
58(1986)199-211

Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes
Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie
62(1987)353-361

Characterization of clean and fouled ultrafiltration membranes
J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
68(1988)93-108

Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes
Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and T. Matsuura
85(1991)1-12

Membranes as fractals: Implications and concequences
C.M. Tam and A.Y. Tremblay
90(1993)77-91

Porosity factors

The equivalent pore radius of dense cellulose acetate membranes
E. Glueckauf and P.J. Russell
8(1970)351-357

The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes
G. Jonsson 34(1980)141-157

Characterization of ultrafiltration polymeric membranes
P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
78(1990)235-255

Porous membranes

Water transport in porous and non-porous membranes
G. Thau, R. Bloch and O. Kedem
1(1966)129-138, Err. 1(1966)296-

The mechanism of membrane phase separation
Wu Qiulin, Cong Lanbo and Liu Qingshang 62(1987)69-78

A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions
Wang Zhenkun, Zhang Huanxin and Chan Ruiying 62(1987)165-171

A desalination process through sweeping gas membrane distillation
L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
64(1987)245-257

Predictability of a membrane transport model: A general approach
K. Habib 75(1989)41-53

Potabilization

A tailored process for remineralization and potabilization of desalinated water
E. Gabbrielli 39(1981)503-520

Treatment of distillates and permeates from seawater desalination plants
H. Ludwig and M. Hetschel
58(1986)135-154

Potabilization of desalinated water at Madinat Yanbu Al-Sinaiyah
Akili D. Khawaji and Jongmihn Wie
98(1994)135-146

Potable water

Appropriate mineral content of desalination water: theory and drinkers' reactions. Part I
E. Gabbrielli and J.P. Gerofi
49(1984)95-103

The cross-flow microfiltration of problematic surface and river waters to produce potable water
K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
67(1987)439-453

Potable water desalination in the U.S. Capital costs, operating costs and water selling prices
W. Leitner 88(1992)279-285

Inhibition of the corrosion of steel pipes carrying potable water. II. Optimization of Ca^{2+} and HCO_3^- content in the presence of phosphate inhibitors
T.M.H. Saber and A.H. Salem
93(1993)461-471

Potable water quality improvement for the city of Amsterdam
H.A. van den Berkmortel and A. Graveland 98(1994)83-103

Disposal of reverse osmosis membrane concentrate
D. Squire, J. Murrer, P. Holden and C. Fitzpatrick 108(1996)143-147

Potassium chloride

Vapor pressures of binary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi
1(1966)139-148

Vapor pressures of ternary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi
1(1966)149-155

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi
2(1967)271-278

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCl solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Potassium recovery

Demineralization of a molasses distillery waste water
F.G. Neytzell-de Wilde
67(1987)481-493

Power generation

Solar energy as a source for production of power and desalinated water
A. Ophir and N. Nadav
40(1982)103-124

Humidification-dehumidification desalination process using waste heat from a gas turbine
H.T.A. El-Dessouky 71(1989)19-33

Analysis of a new combined desalination-power generation plant
A.A. Madani 105(1996)199-205

Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B
C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan 108(1996)37-42

Power generation/desalination

Large scale dual purpose plant for water/power production
D.W. Clelland 2(1967)215-219

Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California
W.K. Davis, L. Galstaun and C. Sharpf 2(1967)227-233

Characteristics of dual-purpose plants producing desalted water and electricity from the same thermal energy source *(in French)*
M. d'Orival 4(1968)66-79

Optimum conjunctive use of a dual-purpose desalting plant and a surface water reservoir
F. Mobasheri and R. Harboe
9(1971)141-153

Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization
L.T. Fan, C.L. Hwang, N.C. Pereira, L.E. Erickson and C.Y. Cheng
11(1972)217-238

Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis
L.E. Stamets, L.T. Fan and C.L. Hwang 11(1972)239-254

The new look at dual-purpose plant design
T.E. Lindemuth and L. Awerbuch
17(1975)75-86

Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia
A.M. El-Nashar and A.A. Husseiny
19(1976)189-199

Dual purpose power/water plants utilizing both distillation and reverse osmosis
C.D. Hornburg and J.E. Cruver 20(1977)27-42

Coupling of standard condensing nuclear power stations to horizontal aluminium tubes multieffect distillation plants
J. Adar 20(1977)143-154

A water and power installation for Lanzarote, Canary Islands, Spain
F. Krebs 20(1977)173-191

Qatar desalination plants
D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti 26(1978)109-116

Design and operation of 2 x 2.5 mgd Bahrain desalination plants
D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri 26(1978)117-125

Combined Yanbu and Medina power and desalination plant
I.M.R. Jamjoom and G. Costes 30(1979)283-300

Optimization of a dual purpose plant for seawater desalination and electricity production
K. Kuenstle and V. Janisch 30(1979)555-569

A distillation process without energy consumption *(in French)*
W. Bongard 30(1979)583-593

Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant
S. C. May, E. H. Houle, S. A. Reed and W. F. Savage 30(1979)605-612

A new look at dual purpose, water and power, plants — Economy and design features
S. Tadros 30(1979)613

Waterhammer studies of power/desal plants cooling water system with common discharge conduit
W.S. Hsieh and J.R. Stange 31(1979)183-184

On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants
R. Rautenbach and E. Ghafour 31(1979)521-532

The VTE boiler: An advanced thermal system for the desalination of sea water
I. Kamal and C.H. Hughes 31(1979)533-544

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Design of high efficiency single and dual purpose plants with gas turbines
G. F. Tusel and I. Kamal 38(1981)135-144

Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region
D. L. Brining, W. C. Lester, W. N. Jessee, D. A. O'Leary, S. Bourgeois and M. S. A. Salam 39(1981)255-260

Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements
L. F. Giannuzzi, O. E. Horn and M. Nakhamkin 39(1981)437-446

Cost of producing power and water in a combined power station and seawater desalination plant
R. Al-Assar, H.E. Hömig and K. Maurath 40(1982)311-316

Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant
A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke 44(1983)17-27

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel 44(1983)61-72

Power and water production in cogeneration systems
S.K. Tadros 44(1983)101-102

Design and performance of the world's largest operating dual-purpose sea water desalting plant
F. G. Abbosh, I. Kamal, S. Chalchal and H. Gerke 45(1983)223-230

Gas turbines in desalination plants
F. Pacini 45(1983)281-288

Investigation of water desalination by distillation technique
N.M. Sinev, V.G. Shatsillo, V.B. Chernozubov, A.A. Samarkin and J.S. Baranov 45(1983)315-320

Optimization in dual purpose plants
F. Cantera Palacios and J.-Ma. Sánchez-Sánchez 45(1983)391-398

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady 49(1984)271-292

Hybrid desalting systems — A new alternative
L. Awerbuch, V. van der Mast and R. Soo-Hoo 64(1987)51-63

Power plants

Vertical tube foam evaporation for fresh water production using power plant waste-heat
H.H. Sephton 31(1979)187-195

Utilization of waste hot water for distillation
M.S. Sodha, A. Kumar and G.N. Tiwari 37(1981)325-341

Acid cleaning and passivation of power plant condensers and desalination plants
R. Cigna, A. De Maio, L. Giuliani and G. Gusmano 38(1981)269-279

Coupling of a power plant with a low temperature multi-effect desalination plant
L. Awerbuch, A. Maddagiri, F. E. Swart and A. N. Rogers 44(1983)177-188

Make-up water treatment at thermal power plants and multiple waste water reuse
O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina 47(1983)321-325

Process sequence for using saline water as power plant coolant
H.H. Sephton 56(1985)1-15

Water reclamation for power plant cooling
D. Blackson, B. W. Reyes, J. W. Kluesener and E. H. Houle 56(1985)175-190

Experiments on RO process for production of boiler make-up water from sea water
K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
56(1985)367-379

Cogeneration power-desalination plants
M. A. Darwish 69(1988)27-46

Manageable automation systems for power and desalination plants
D.M.K. Al-Gobaisi, A.S. Barakzai, M. Abdul Aziz and A. Hassan
92(1993)211-251

Automation of water treatment plants and its application in power and desalination plants
E.A. Al-Sum, A. Sattar and M. Abdul Aziz 92(1993)309-321

Large pumps in power and desalination plants
H. Osman, A.H. Sultan, A. Radif and S.A. Aziz 93(1993)181-206

The use of hollow fiber filters to improve condensate purification efficiency in thermal power plants
H. Koushiro and Y. Kubo
98(1994)361-373

Power stations

Comparison of MSF heat rejection sections and seawater cooled power station condensers
B.M. Watson and K. Eimer
38(1981)49-56

Reverse osmosis as a step for make-up demineralised water for power stations
I. Dobrevsky, V. Mavrov and B. Bonev 46(1983)157-162

Retrofitting and repowering of coastal power stations to augment water supplies in Southern California
G.V. Sims and I. Kamal
94(1994)251-259

Power supply

Geothermal energy recovery process
L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers
19(1976)325-336

Analysis of the water desalination and power generation expansion plans for the Emirate of Abu Dhabi
A.M. El-Nashar 44(1983)107

Pre-irradiation

Preparation of NF ion-exchange membranes via radiation-induced grafting and their application
Xu Zhi-li 62(1987)259-264

Preparation of charged micro-mosaic membrane via radiation-induced grafting of styrene and methyl methacrylate onto Teflon FEP films
Gen Yun-Peng 62(1987)265-273

Preparation of charge-mosaic membranes by radiation-induced graft copolymerization of PE films with styrene and 4-vinylpyridine. II. Effects of pre-irradiation dosage, atmosphere, storage time and storage temperature of grafting of vinylpyridine onto PE films
Dong Chuanyin 62(1987)275-282

Gamma radiation induced graft copolymerization of acrylate monomers onto isotactic polypropylene
I. Kaur and B. N. Misra
64(1987)271-284

Precipitation

Desalination by an ion exchange-precipitation-complex process
A.R. Glueck 4(1968)32-37

The crystallization of magnesium hydroxide, a constant composition study
C.-C. Chieng and G.H. Nancollas
42(1982)209-219

Continuous flow precipitation
D. Hasson and S. Steinberg
47(1983)129-148

Flocculation, precipitation, sedimentation and flotation for use as pretreatment stages for brackish water and seawater in desalination plants
K. Marquardt 52(1984)43-55

Analysis of laminar flow precipitation fouling on reverse osmosis membranes
J. Gilron and D. Hasson 60(1986)9-24

Spontaneous precipitation of calcium sulphate dihydrate in the presence of some metal ions
S.K. Hamdona, R.B. Nessim and S.M. Hamza 94(1993)69-80

Advanced alkaline electrolysis with porous polymeric diaphragms
J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
104(1996)47-57

Precoating

The cross-flow microfiltration of problematic surface and river waters to produce potable water
K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
67(1987)439-453

Studies of ion-exchange fiber "IONEX" for precoating material
M. Henmi and T. Yoshioka
91(1993)319-331

Prefiltration

The chance for reverse osmosis technology: Vacuum precoated prefiltration/automation
H.K. Heybach and U. Müller-Frank
54(1985)137-143

Pressure driven membrane processes

Pressure driven membrane processes in the treatment of industrial effluents
R. Matz, E. Zisner and G. Herscovici
24(1978)113-128

Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from .single solute aqueous solution
S. W. Thiel and D. R. Lloyd
46(1983)399-406

Terminology for pressure-driven membrane operations
V. Gekas 68(1988)77-92

Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes; low pressure formation, high pressure evaluation
F. G. Neytzell-de Wilde, C. A. Buckley and M. P. R. Cawdron
70(1988)121-136

Permeate flux improvement along a tubular ultrafiltration membrane
B. Dutre and D. Taeymans
70(1988)317-326

Pressure driven processes

Spray freezer and pressurized counterwasher for freeze desalination
W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone 14(1974)249-262

Influence of pressure and/or pressure differential on membrane permeability
W. Pusch and G. Mossa
24(1978)39-53

New geometry for MSF units
H.T. El-Dessouky and F. Mayinger
31(1979)45-55

Asymmetric behavior of membranes in pressure driven processes
V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
46(1983)447-454

Performance of a spiral wound ultrafiltration membrane with turbulence promoting net under conditions of strong pressure gradient and fouling
R.L.C. Flemmer 48(1983)321-329

Constriction of B10 hollow fibre bore diameters under operating condition
W. T. Hanbury and A. Yuceer
54(1985)27-44

Measurement of small temperature and pressure differences
N. Lior 59(1986)19-60

A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems
M.A. Darwish, M. Abdel-Jawad and L.J. Hauge 75(1989)25-39

A comparison of two commercial membranes used for biogas upgrading
M. Röhr and R. Wimmerstedt
77(1990)331-345

Pressure drop

The development of enhanced heat transfer condenser tubing
I.H. Newson and T.D. Hodgson
14(1974)291-323

Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant
H.L. Fong, C.J. King and H.H. Sephton 16(1975)15-38

Heat transfer and pressure drop of corrugated tubes
K. Mimura and A. Isozaki
22(1977)131 -139

Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance
W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi
38(1981)301-318

Lateral flow through a membrane and along a backing support to a collector
K.J. Mysels 60(1986)67-73

Mass transfer and pressure loss in spiral wound modules
G. Schock and A. Miquel
64(1987)339-352

Pressure osmosis

Desalination by pressure osmosis
U. Merten 1(1966)297-310

Recent developments in the utilization of salinity power
C. Forgacs 40(1982)191-195

Pretreatment

Flocculation, precipitation, sedimentation and flotation for use as pretreatment stages for brackish water and seawater in desalination plants
K. Marquardt 52(1984)43-55

The chance for reverse osmosis technology: Vacuum precoated prefiltration/automation
H.K. Heybach and U. Müller-Frank
54(1985)137-143

Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods
A. C. Molseed, J. R. Hunt and M. W. Cowin 61(1987)249-262

Experience and results on the operation of the common pretreatment at DROP
J. Grigoleit and B. Schöttler
63(1987)209-215

Experience and results on the operation of the spiral wound module line of DROP
J. Grigoleit and B. Schöttler
63(1987)217-223

Seawater desalination with polyamide hollow fibre modules at DROP
R. Nagel 63(1987)225-246

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

Trace metal fouling and cleaning of seawater RO membranes
G. Peplow and F. Vernon
66(1987)271-284

The use of speciation and X-ray techniques for determining pretreatment steps for desalination
C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen 66(1987)327-337

The use of speciation and X-ray techniques for determining pretreatment steps for desalination
C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen 66(1987)327-337

Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination
H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly
66(1987)423-430

Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station
R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari 66(1987)431-442

Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar
G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
66(1987)443-454

The performance of ultrafiltration membranes pretreated by polymers
K.J. Kim, A.G. Fane and C.J.D. Fell
70(1988)229-249

Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant
K. Hamby and James Chen
76(1989)3-14

High recovery reverse osmosis
B.M. Watson 78(1990)91-97

Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes
Y. Wang, W.Y. Lau and S. Sourirajan 95(1994)155-169

Potable water quality improvement for the city of Amsterdam
H.A. van den Berkmortel and A. Graveland 98(1994)83-103

Small-scale sewage plant experiment by pretreatment and methanization of suspended solid
M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka 98(1994)217-224

Desalination of surface water to industrial water with lower impact on the environment. Part 2: Improved feed water pretreatment
V. Mavrov, H. Chmiel, B. Heitele and F. Rögener 110(1997)65-74

Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique
S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji 110(1997)85-92

Antiscale magnetic pretreatment of reverse osmosis feedwater
J.S. Baker, S.J. Judd and S.A. Parsons 110(1997)151-166

Experiences with the pretreatment of raw water with high fouling potential for reverse osmosis plant using FILMTEC membranes
J.A. Redondo and I. Lomax 110(1997)167-182

Seawater reverse osmosis pretreatment with an emphasis on Jeddah plant operation experience
A.H.H. Al-Sheikh 110(1997)183-192

Pretreatment by Membrane

Membrane pretreatment of reverse osmosis - Long term experience on difficult waters
B. Durham 110(1997)49-58

Stochastic modeling particle-size distribution in permeate and in concentrate on the stage of membrane pretreatment before reverse osmosis
S.P. Agashichev and E.A. Dmitriev 110(1997)75-91

Present and future pretreatment concepts - Strategies for reliable and low-maintenance reverse osmosis seawater desalination
R. Rautenbach, T. Linn and D.M.K. Al-Gobaisi 110(1997)97-106

Ultrafiltration (new technology), a viable cost-saving pretreatment for reverse osmosis and nanofiltration - A new approach to reduce costs
R. Rosberg 110(1997)107-114

Functionalization of polyethylene film by radiochemical grafting for use as membranes in seawater desalination
I. Kaur, A. Gupta, B.N. Misra and G.S. Chauhan 110(1997)115-

Synthesis and characterization of grafted polyethylenes for use as membranes in water desalination
I. Kaur, G.S. Chauhan, B.N. Misra and A. Gupta 110(1997)129-142

Ideal feed pretreatment for reverse osmosis by continuous microfiltration
B. Chakravorty and A. Layson 110(1997)143-150

Pretreatment, feedwater

Sea water softening by osmosis through desalinating membranes
E. Glueckauf, L.A. McDonald and P.J. Russell 3(1967)155-168

Ion-exchange pretreatment for sea water desalination plants
G.K. Kunz 3(1967)363-372

Calcium removal from sea water by fixed-bed ion exchange
G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen 4(1968)158-166

Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants
A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli 16(1975)135-149

An ion-exchange process with thermal regeneration. X. Removal of dissolved oxygen from the feedwater
W.G.C. Raper 17(1975)325-328

The economics of the seed slurry process for scale control
O. Pfefferkorn 19(1976)75-82

Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs
J.J. Allard, J.M. Rovel and P. Treille 19(1976)169-174

Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA
K.G. Patel, F.L. Harris and K.C. Channabasappa 19(1976)381-388

Ion exchange pretreatment using desalting plant concentrate for regeneration
C. van Hoek, J.W. Kaakinen and L.A. Haugseth 19(1976)471-479

Reverse osmosis to achieve water control and recycle
R.T. Heizer and C.E. Plock 20(1977)61-69

Reverse osmosis desalting plant for industrial water at Kashima in Japan
T. Kasamatsu and J.G. Gaydos 20(1977)335-342

Performance of a ceramic ultrafilter with sea water
K.K. Likhyani and J.K. Beasley 22(1977)345-348

An integrated pretreatment system for high recovery reverse osmosis systems
D.R. Anderson and W.R. Mills 22(1977)349-357

On line tube cleaning systems for polyphosphate plants
S.V. Cabibbo and J.T. Callahan 23(1977)311-319

The application of a high temperature scale control additive to a European MSF plant
G. Spanhaak, M.A. Finan and A. Harris 23(1977)455-464

A study on Posidonia residue in seawater intakes
E. Gabbrielli and A. Ripasarti 30(1979)127-143

Reverse osmosis pre-treatment techniques in Saudi Arabia
R.R. Doelle 30(1979)317

Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis
T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino 32(1980)93-101

Pretreatment of reverse osmosis feedwater by means of in line coagulation
J. C. Schippers, J. Verdouw and J. M. Hofman 32(1980)103-112

The pretreatment of seawater RO feed using the UVOX (W/oxidant) process
D. Hebden and G. R. Botha
32(1980)115-126

Colloidal fouling of reverse osmosis membranes
M.T. Brunelle 32(1980)127-135

Advanced treatments. Nice Lingostiere treatment plant
M. Picard, G.M. Faup and J.M. Rovel
32(1980)149-153

Industrial operating experience of more than three years with a 1440 m^3/day Snamprogetti VTE
P. Tiraboschi 38(1981)21-28

Sea water intake and its effect on heat rejection design and material for flash distillation plant
M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim
38(1981)257-267

Pretreatment and operating experience on reverse osmosis plant in the Middle East
D. Pepper 38(1981)403-417

Pretreatment of seawater RO feed by means of coagulation-filtration
H. Tsuge, S. Suda and T. Matsumura
38(1981)425-436

Experiments with desalination of Arabian Gulf water
M. El-Salem 39(1981)261-271

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

High temperature distillation process with sea water feed decalcification pretreatment
D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
40(1982)347-355

Effect of recovery on desalination of the Black Sea water by reverse osmosis
I. Dobrevsky, V. Mavrov and B. Bonev 41(1982)209-214

Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater
A. Cohen, M. Zangen, M. Koenigsbuch and J. M. E. Goldschmidt 41(1982)215-232

An ion-exchange process with thermal regeneration. XV. Treatment of sulphite deoxygenated feedwaters
N.H. Pilkington and W.G.C. Raper
42(1982)255-272

Results of four years of operation at high temperature (150°C) of Bari's desalination plant
A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
45(1983)197-207

Reverse osmosis as a step for make-up demineralised water for power stations
I. Dobrevsky, V. Mavrov and B. Bonev 46(1983)157-162

Ion-exchange pretreatment for scale prevention in desalting systems
T. Vermeulen, B.W. Tleimat and G. Klein 47(1983)149-159

Pretreatment of seawater for the reverse osmosis type desalination process
R. Bartz 47(1983)189-190

Control of biological fouling in seawater reverse osmosis desalination
H. Winters, I. Isquith, W.A. Arthur and A. Mindler 47(1983)233-237

Yuma desalting test facility: Foulant component study
C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty
47(1983)239-253

A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening
D. Barba, V. Brandani and P. U. Foscolo 48(1983)133-146

Fouling of RO membranes in wastewater applications
M.L. Arora and K.M. Trompeter
48(1983)299-319

Pretreatment system in reverse osmosis plants
T. K. Osta and L. M. Bakheet, Sr.
63(1987)71-80

Pretreatment of Seawater Feed

An overview of pretreatment technology for reverse osmosis desalination plants in Japan
Y. Taniguchi 110(1997)21-36

Maximum recovery from seawater reverse osmosis plants in Kuwait
M. Al-Shammiri and M. Al-Dawas
110(1997)37-48

Desalination of surface water to industrial water with lower impact on the environment. Part 2: Improved feed water pretreatment
V. Mavrov, H. Chmiel, B. Heitele and F. Rögener 110(1997)65-74

Pretreatment system

Pretreatment of surface seawater feed at DROP
S. Ebrahim and A. Malik
63(1987)95-107

Factors affecting the design of a pre-treatment system for a 1,200 m^3/d RO plant in Riyadh, Saudia Arabia with an iron-rich, 60°C feed water
K.J. McGlone, E.G. Darton, D.J. Langdown and A. Rahman
96(1994)397-408

An electrolytic chlorination system for pretreatment and post-treatment in desalination systems
D.C. Brandt 102(1995)321-324

Pretreatment systems

New pretreatment systems using membrane separation technology
M. Oinuma, S. Sawada and K. Yabe
98(1994)59-69

Privatization

Privatization as a financing alternative for desalination plants in Bahrain
A. Khater, S. Dannish and M. Al-Ansari 97(1994)281-290

Privatization of government system
J.M. Parker and P.D. Ribbins
97(1994)313-318

Process analysis

Optimal design of desalination systems
L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang 3(1967)225-236

Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
4(1968)336-360

Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
5(1968)237-265

A system for the experimental study of flash evaporation
N. Lior and R. Greif 31(1979)87-99

Engineering and process experience deriving from various solutions in the design of MSF evaporators
D. Barba 33(1980)11-20

Conceptual design aspects of reverse osmosis
D. Kuiper and M. Mendia
35(1980)273-289

Process control

Measurements and control in ion exchange installations
F.X. McGarvey and S.A. Fischer
59(1986)403-424

New concepts in energy savings and process control for desalination plants using reverse osmosis
E. Fredkin 65(1987)321-330

Computerized instrumentation and control for reverse osmosis systems
E. Fredkin and R. Banks
75(1989)141-148

One year operational experience on the process control system at UANE MSF Desalination Plant
S. Rebagliati, E. Ghiazza and K.S. Abueida 75(1989)149-169

Model based control for reverse osmosis desalination processes
M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi 104(1996)59-68

Process description

The influence of process temperatures on the design of multi-stage flash distillation plants
K. Thies and J. Hapke
31(1979)101-111

An advanced barge mounted VTE/VC for the desalination of seawater
D.K. Emmermann 38(1981)13-20

Industrial operating experience of more than three years with a 1440 m^3/day Snamprogetti VTE
P. Tiraboschi 38(1981)21-28

Large scale diesel driven vapor compression units
R. Rautenbach and B. Arzt
38(1981)75-84

Desalination by vapor compression
W. Bulang 38(1981)85-97

A tubeless evaporator
D.W. Schroeder and P.J. Schroeder
38(1981)155

Process sequence for using saline water as power plant coolant
H.H. Sephton 56(1985)1-15

Membrane distillation — A theoretical study of evaporation through microporous membranes
A.-S. Jönsson, R. Wimmerstedt and A.-C. Harrysson 56(1985)237-249

Measurements and control in freeze desalination plants
W.J. Hahn 59(1986)321-341

Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m^3/d and 3,000 m^3/d
G. Fosselard and K. Wangnick
76(1989)215-240

The Puraq seawater desalination process — An update
L. Lazare 85(1992)345-360

Process design

Conceptual design aspects of reverse osmosis
D. Kuiper and M. Mendia
35(1980)273-289

Use and abuse of thermodynamic criteria
R. S. Silver 40(1982)231-234

Development of distillation processes responsive to energy cost escalations
H. H. Sephton 40(1982)375-384

Performance evaluation and process design of an electrodialysis plant by overpotential measurements
R. Passino, C. Marra, A. Rozzi and G. Tiravanti 41(1982)181-197

Process and layout design of a combined MSF/VTE plant
J. Hapke and B. Uckermann
45(1983)113-114

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 45(1983)373

Theoretical approach to MSF stages efficiency calculation
G. Migliorini, B. Fumagalli and S. Arazzini 55(1985)185-198

Process design of a 30000 m^3/d advanced water re-use facility for Jeddah, Saudi Arabia
C. Bowler, S.H. Greenhalgh and M.S. Brenji 56(1985)47-60

Design and field tests of a new membrane distillation desalination process
S.-I. Andersson, N. Kjellander and B. Rodesjö 56(1985)345-354

Module and process design for vapor permeation
R. Rautenbach and U. Meyer-Blumenroth 77(1990)295-322

Process selection

Absorption freezing vapor compression: process selection, pilot plant design, process economics
J.H. Fraser 33(1980)85-98

Process selection guide to seawater desalting
D. R. Finnegan and W. M. Wagner
38(1981)29-48

Squeezing desalted water costs by proper choice of the desalting technology and water management
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem
44(1983)189-198

Selection for desalination processes for dual-purpose nuclear plants
I. I. Kutbi, Z. A. Sabri and A. A. Husseiny 58(1986)113-134

Process simulation

Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
5(1968)237-265

Simulation of thermal desalination processes, some results
R. Rautenbach and H.G. Büchel
45(1983)37

Processing variables

Influence of some processing variables on the properties of cellulose acetate membranes. I. Ultimate properties and birefringence
E.A. Meinecke and D.V. Mehta
10(1972)341-352

Influence of some processing variables on the properties of cellulose acelate membranes. II. Desalination characteristics of unstretched and stretched membranes
D.V. Mehta and E.A. Meinecke
10(1972)353 -368

Influence of some processing variables on the properties of cellulose acetate membranes. III. Temperature dependence of the desalination performance of membranes plasticized by various plasticizers
D.V. Mehta and E.A. Meinecke
10(1972)369-382

Product water

A microprocessor-based data monitoring and control system for a continuous ion exchange plant
E. W. Randall 49(1984)169-184

Measurement and control of feed water and product water composition
W.F. McIlhenny 59(1986)445-460

Production of quality drinking water with membranes
A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov 108(1996)167-170

Profiled tube

Heat transfer in film-type evaporator with profiled tubes
V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash
74(1989)363-372

Evaporation heat transfer in liquid films flowing down horizontal smooth and longitudinally profiled tubes
J.V. Putilin, V.L. Podbereznyi and V.G. Rifert 105(1996)165-170

Protein separation

Separation of proteins by charged ultrafiltration membranes
S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
70(1988)191-205

Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations
Chen Jiayan, Wang Liancheng and Zhu Zhengyu 86(1992)301-315

Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan
A. Higuchi, Y. Ishida and T. Nakagawa 90(1993)127-136

Selective separation of proteins by microfiltration with formed-in-place membranes
L. Zhang and H.G. Spencer
90(1993)137-146

Proteins

Production of whey protein concentrates with high solids content
J. Rubin 35(1980)193-199

The effect of surfactant pretreatment on the ultrafiltration of proteins
A.G. Fane, C.J.D. Fell and K.J. Kim
53(1985)37-55

Parametric evaluation of flux decline during ultrafiltration of protein solutions
A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik
68(1988)35-44

Microfiltration of protein solutions: Effect of fouling on rejection
P. Heinemann, J.A. Howell and R.A. Bryan 68(1988)243-250

Newer applications for crossflow membrane filtration
J.L. Short 70(1988)341-352

Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins
R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel 79(1990)217-231

The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review
A.D. Marshall, P.A. Munro and G. Trägårdh 91(1993)65-108

Treatment of waste water from silk degumming processes for protein recovery and water reuse
C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita 105(1996)1-9

PSI-cell method

Numerical predictions of evaporative behaviors of horizontal stream inside a multi-stage-flash distillator
K.W. Seul and S.Y. Lee
79(1990)13-35

Effect of liquid level on flow behaviors inside a multi-stage flash evaporator — A numerical prediction
K.W. Seul and S.Y. Lee
85(1992)161-177

Pulp and paper industry

Membrane processes for water, pulp and paper, food. State of the art
R. Glimenius 35(1980)259-272

Membrane technology in the pulp and paper industry
O. Olsen 35(1980)291-302

Treatment of pulp/paper bleach effluents by reverse osmosis
M.J. Simpson and G.R. Groves
47(1983)327-333

The application of membrane technology in the pulp and paper industry
A.-S. Jönsson and R. Wimmerstedt
53(1985)181-196

Ultrafiltration applications
A.-S. Jönsson and G. Trägårdh
77(1990)135-179

Membrane separation processes in the pulp and paper industry
M.D. Afonso and M.N. De Pinho
85(1991)53-58

Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent
M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson 101(1995)155-167

Pumping

Seawater pumping stations *(in French)*
A. Le Grand and J. Gatignol
31(1979)173-181

Improved pumping economics for seawater RO systems
D. C. Hallock 44(1983)99-100

A specific energy recovery pumping system for reverse osmosis desalination
P. Goubeau and P. Leroy
44(1983)199-206

A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems
M.A. Darwish, M. Abdel-Jawad and L.J. Hauge 75(1989)25-39

Pumps

Centrifugal pumps for desalination
F. F. Antunes, R. E. Cornman and R. J. Hartkopf 38(1981)109-122

Studies, testing, and development of a line of brine recirculating pumps for sea water desalinization installations
A. Le Grand, J. Gatignol and J.F. Lapray 39(1981)351-361

Use of variable speed pumps for MSF and RO plants
G. Fechner and R. Pillkahn
55(1985)461-468

Variable speed turbo couplings used for speed control of pumps for seawater desalination plants
H. Burkard 82(1991)107-117

Large pumps in power and desalination plants
H. Osman, A.H. Sultan, A. Radif and S.A. Aziz 93(1993)181-206

Puraq desalination process

The Puraq seawater desalination process
L. Lazare 42(1982)11-16

Purification

Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions
G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath 36(1981)87-97

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder
71(1989)233-245

Concentration and purification of gelatin liquor by ultrafiltration
B. Chakravorty and D.P. Singh
78(1990)279-286

Electroplating rinse waste water treatment by ion exchange
I. Dobrevsky, M. Dimova-Todorova and T. Panayotova 108(1996)277-280

Pyridine

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Quality control

Quality control problems in copper alloy tubes manufacturing
G. Gusmano and G. Dall'Omo
38(1981)281-293

A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients
B. Marcandalli, E. Selli, R. Tacchi, I. R. Bellobono and G. Leidi
51(1984)113-122

Electrical conductivity and total dissolved solids - what is their precise relationship?
N.R.G. Walton 72(1989)275-292

The use of a qualitative method of control for some process parameters of distillation desalting plants
V.V.Barinov, V.L. Podbereznji, I.D. Mogilner and V.F. Barinov
88(1992)179-186

Quench dilution

Scale prevention via quench dilution
E.A.J. Mroz 3(1967)135-138

Radial flow

Permeability measurements of flat seawater membranes
J.P. Agrawal, C.R. Antonson and N.W. Rosenblatt 11(1972)71-90

Flow patterns in radial flow hollow fiber reverse osmosis systems
W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee 68(1988)11-28

Radiation grafting

Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films
A. Chapiro and A.-M. Jendrychowska-Bonamour
24(1978)83-91

Rare earth ions

RO separation of rare earth ions from aqueous solution by hydrous Fe oxide-cellulose composite membrane
Y. Kurokawa 41(1982)115-119

Rayleigh-Jeffreys stability

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to horizontal flows
D. Pnueli and Y. Zvirin
33(1980)163-183

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows
M. Bouscher, D. Pnueli and Y. Zvirin
36(1981)307-333

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
M. Bouscher, P. Pnueli and Y. Zvirin
49(1984)17-36

Recycle treatment technology

Potential for water reuse in conjunction with desalination systems
R.M. Ahlgren 75(1989)315-328

High recovery reverse osmosis using a recycle loop
C.C. Herrmann 91(1993)279-292

Membrane filtration and reverse osmosis purification of sewage: Secondary effluent for re-use at Eraring Power Station
M. Masson and G. Deans
106(1996)11-15

Reflection coefficient

Relation between salt rejection rho and reflection coefficient sigma of asymmetric cellulose acetate membranes
W. Pusch and R. Riley
14(1974)389-393

The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes
G. Jonsson 34(1980)141-157

Regeneration

A new distillation procedure for seawater desalination based on the regeneration principle *(in German)*
K.-H. Steil 45(1983)303-313

Characteristics of strong-acid cation exchangers. 1. Optimization of regeneration
C. A. Sauer 51(1984)313-324

Rehabilitation

Rehabilitation of desalination plants at Sitra Power Station, Bahrain
K. Borashid and K. Kato
73(1989)277-293

Reinforced thermosetting materials

MSF evaporator fabricated from reinforced thermosetting materials
O. J. Morin and R. A. Johnson
31(1979)355-363

Reject heat

Low temperature reject heat utilization for desalination; economical and technical aspects
B. Hausherr 67(1987)215-226

Rejection

Additives for the preparation of polysulfone-based ultrafiltration membranes, especially for hemodialysis and hemo-osmometer
Xu Xie-quing 48(1983)79-84

Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack
J. C. Watters, E. Klein, M. Fleischman, J. S. Roberts and B. Hall
60(1986)93-110

New composite charged reverse osmosis membrane
K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
68(1988)109-119

Dynamically formed hydrous zirconium (IV) oxide—polyelectrolyte membranes V. Non-homogeneous poly(acrylic acid-convinyl alcohol) membranes: Rejection and flux properties and the treatment of coal gasification waste water
A.J. Van Reenen and R.D. Sanderson
72(1989)319-328

Effect of structure controlled deposited layers on the retention of flavour compounds in reverse osmosis
C. Schwab, U. Kulozik and H.G. Kessler 90(1993)173-182

Microfiltration of long chain carboxylates: Relationship between rejection and micellization
O. Surel and M.-H. Famelart
95(1994)11-25

Nanofiltration of highly colored raw water for drinking water production
B. Ericsson, M. Hallberg and J. Wachenfeldt 108(1996)129-141

Reliability analysis

Reliability analysis of desalination equipment
A. Unione, E. Burns and A. Husseiny
32(1980)225-237

Reliability analysis of reverse osmosis plant
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)291-313

The reliability assurance survey: An initial step towards increased operating reliability at existing desalination facilities
R.E. Bailie 45(1983)185-194

Appropriate mineral content of desalinated water — Theory and drinkers' reaction
E. Gabbrielli and J.P. Gerofi
45(1983)357

Remineraiization

Remineralization of desalinated water by limestone dissolution filter
Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
66(1987)365-383

Remineralization

A tailored process for remineralization and potabilization of desalinated water
E. Gabbrielli 39(1981)503-520

Treatment of distillates and permeates from seawater desalination plant
H. Ludwig and M. Hetschel
58(1986)135-154

Remineralization of desalinated water by limestone dissolution filter
Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
66(1987)365-383

Renewable energy

Desalination and renewable energies: a few recent developments
J. J. Libert and A. Maurel
39(1981)363-372

Recent renewable energy driven desalination system research and development in North America
J.F. Manwell and J.G. McGowan
94(1994)229-241

Desalination using renewable energy sources
A. Hanafi 97(1994)339-352

Renewable energy, see Solar, see Wind

-

Replacement ratio

Short-cut method for estimating membrane number, product salinity and replacement ratio
M.A. Marwan 94(1993)201-212

Resins, physicochemical properties

Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins
L. Liberti, R. Passino and D. Petruzzelli 41(1982)199-207

Resistance models

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Restoration techniques

Method for extending heat exchanger and condenser life
C.P. Tallman, Sr. 73(1989)231-246

Retubing

Maintenance activity for partial intervention of retubing on four distillers multi-flash double-deck (capacity 3 mgd for each unit) of Abu Dhabi power station after 18 years of operation activity
V. Franchini 108(1996)295-313

Reverse electrodialysis

Recent developments in the utilization of salinity power
C. Forgacs 40(1982)191-195

Reverse osmosis

A finite difference solution for reverse osmosis in turbulent flow
S. Srinivasan and C. Tien 7(1969)51-74

Concentration build-up in reverse osmosis in turbulent flow
Y. Winograd and A. Solan 7(1969)97-109

A simplified method for the prediction of concentration polarization in reverse osmosis operation for multicomponent systems
S. Srinivasan and C. Tien 7(1970)133-145

Natural convection effect in reverse osmosis
S. Srinivasan and C. Tien 10(1972)273-286

Unsteady state operation of a reverse osmosis desalination unit
E.R. Lising and R. Alward 11(1972)261-268

Reverse osmosis in laminar flow through curved tubes
R.J. Nunge and L.R. Adams 13(1973)17-36

The use of reverse osmosis for the treatment of Rhine river water. Part I
D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw 14(1974)163-172

Reverse osmosis in shell and tubes
Y. Winograd, M. Toren and A. Solan 14(1974)173-187

The use of reverse osmosis for the treatment of river Rhine water. Part II
D. Kuiper, J.L. Van Hezel and C.A. Bom 15(1974)193-212

Status of reverse osmosis desalination technology
K.C. Channabasappa 17(1975)31-67

Effect of particle deposition on the reduction of water flux in reverse osmosis
C.-C. Hung and C. Tien 18(1976)173-187

Present status of reverse osmosis in Japan
H. Ohya 19(1976)411-419

Live seawater experience in Japan with hollow fiber permeators
Y. Murayama, T. Kasamatsu and J.G. Gaydos 19(1976)439-446

A comparison of seawater desalination processes and their economics
K.C. Channabasappa 19(1976)535-554

Application of membrane processes
H.B. Sliger and R. Quinn 19(1976)573-586

Large-scale reverse osmosis processing of metal finishing rinse waters
S.S. Kremen, C. Hayes and M. Dubos 20(1977)71-80

Reverse osmosis relevant to India
D.J. Mehta, V.P. Pandya and A.V. Rao 20(1977)403-413

Polymer-water interaction and its relation to reverse osmosis desalination efficiency
H. Strathmann and A.S. Michaels 21(1977)195-202

Pretreatment and cleaning of hyperfiltration (reverse osmosis) membranes in municipal wastewater renovation
G. Belfort 21(1977)285-300

The development of seawater desalination by reverse osmosis process in Japan
Y. Kunisada, Y. Murayama and M. Hirai 22(1977)243-252

An iIntegrated industrial waste water treatment system using electroflotation and reverse osmosis
H.P. Roth and P.V. Ferguson 23(1977)49-63

Present art and status of reverse osmosis and ultrafiltration in Japan
H. Ohya 23(1977)223-233

Membrane processes used for the treatment of industrial effluents
P. Mappelli, M. Santori, A. Chiolle and G. Gianotti 24(1978)155-173

Membrane processes combined with enzymatic reactions: an experimental study
E. Drioli, M. Mendia and R. Molinari 24(1978)193-209

Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis
H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato 25(1978)89-97

Application of regular solution theory to organic solute rejection by reverse osmosis
Y. Kurokawa, T. Tsuchiya and N. Yui 29(1979)233-238

The future of reverse osmosis in water desalination
J.K. Beasley 30(1979)69-74

Water desalination — A perspective for membrane processes in India
D.J. Mehta, A.V. Rao and K.P. Govindan 30(1979)325-335

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D.K. Emmermann and G.F. Tusel 30(1979)499

The first decade of commercial reverse osmosis desalting 1968-1978
P.V. Ferguson 32(1980)5-12

RO, MSF and VTE/VC desalination: A comparative evaluation
I. Kamal, D. K. Emmermann and G. F. Tusel 33(1980)229-239

Concentration of raw whole milk by reverse osmosis and its influence on fat globules
R. de Boer and P.F.C. Nooy 35(1980)201-211

Application of reverse osmosis to automotive electrocoat paint wastewater recycling
J. E. Anderson, W. S. Springer and G. G. Strosberg 36(1981)179-188

Desalination of sea water by an electrodialysis-reverse osmosis hybrid system
H. Schmoldt, H. Strathmann and J. Kaschemekat 38(1981)567-582

Engineering design of a 6000 m^3/day seawater hybrid RO-ED helio-desalting plant
A.A. Husseiny and H.L. Hamester 39(1981)171-172

Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant
K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel 44(1983)61-72

Desalination by reverse osmosis in China
Ying Wang et al. 46(1983)35-40

Reverse osmosis as a step for make-up demineralised water for power stations
I. Dobrevsky, V. Mavrov and B. Bonev 46(1983)157-162

Pretreatment of seawater for the reverse osmosis type desalination process
R. Bartz 47(1983)189-190

Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis
G. van Opbergen, T. Peters, R. Rautenbach and H. Tils 47(1983)267-274

A field trial of reverse osmosis in the El Khanka Desert, Egypt
M.G.A. Khedr, A.H. Abd El-Wahab, J. Kaschemekat and J. Mohn 51(1984)173-181

Recovery of phosphoric acid with RO
T. Thorsen 53(1985)217-224

The line pressure reverse osmosis appliance industry
D.B. Guy and S.I. Magidson 54(1985)127-135

A field trial of seeded reverse osmosis for the desalination of a scaling-type mine water
R. C. Harries 56(1985)227-236

Measurements and control in reverse osmosis desalination
A.B. Mindler and A.C. Epstein 59(1986)343-379

On the calculation of stream concentrations in reverse osmosis processes
D. Sambrailo and B. Kunst 60(1986)111-116

Reverse osmosis desalination plant, RA's Abu Jarjur, State of Bahrain — Two years operational experience for the 46,000 m^3/day RO plant
M. Al-Arrayedh, B. Ericsson, M. Amin Saad and H. Yoshioka 65(1987)197-230

New concepts in energy savings and process control for desalination plants using reverse osmosis
E. Fredkin 65(1987)321-330

RO desalination in Northwest China
Wang Ying 69(1988)57-59

Recent advances of reverse osmosis and ultrafiltration in China
Zheng Ling-Ying 70(1988)17-45

Treatment of uranium effluent by reverse osmosis membrane
Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh 71(1989)35-44

Studies on diisocyanate-modified cellulose acetate membranes
K.H. Hsieh, B.Y. Lin and W.Y. Chiu 71(1989)97-105

Study on the interaction between membranes and organic solutes by the HPLC method
Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan 71(1989)107-126

Cost-effectiveness of solar water production
R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari 71(1989)165-175

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder 71(1989)233-245

Membrane cleaning
G. Trägårdh 71(1989)325-335

Prediction of reverse osmosis membrane salt rejection in multi-ionic solutions from single-salt data
M. Brusilovsky and D. Hasson 71(1989)355-366

Future for desalination by reverse osmosis
M.A. Jawad 72(1989)23-28

Electrical conductivity and total dissolved solids - what is their precise relationship?
N.R.G. Walton 72(1989)275-292

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 72(1989)367-379

Prospects of hybrid RO-MSF desalting plants in Kuwait
A.M.R. Al-Marafie 72(1989)395-404

Management and feasibility of reverse osmosis schemes for rural water supply in India
S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani 73(1989)37-46

Development, testing and the economics of a composite/plastic seawater reverse osmosis pump
D.C. Hicks, W.A. Fearn, C.M. Pleass and D. Staples 73(1989)95-109

Evaluation of solar powered desalination process
I.S. Al-Mutaz and M.I. Al-Ahmed 73(1989)181-190

Scaling potential of Kuwait seawater for reverse osmosis desalination
S.E. Ebrahim and B.A. Darwish 74(1989)141-156

A twenty year case history — B-9 hollow fiber permeator
I. Moch, Jr. 74(1989)171-181

An approximate analytical solution for the performance of reverse osmosis plants
A.E.S. Al-Zahrani, M.A. Soliman and I.S. Al Mutaz 75(1989)15-24

System identification and control of reverse osmosis desalination
I.M. Alatiqi, A.H. Ghabris and S. Ebrahim 75(1989)119-140

Desalination plant at KWK Debiensko, Poland: Advanced mine drainage water treatment engineering for zero discharge
J. Masarczyk, C.-H. Hansson, R.L. Solomon and B. Hallmans 75(1989)259-287

Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1
G. Ali, J.H. Dalton, P.D. Judges and C. Tao 76(1989)27-37

Desal-5 membrane for water softening
D.L. Comstock 76(1989)61-72

Optimum design for a hybrid desalting plant
I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem 76(1989)177-187

Hybrid desalting systems
L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast 76(1989)189-197

Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m^3/d and 3,000 m^3/d
G. Fosselard and K. Wangnick 76(1989)215-240

RO for improved products in the food and chemical industries and water treatment
D. Pepper 77(1990)55-71

Current regulatory concerns related to the disposal of RO concentrates in Florida
R.S. Dehan 78(1990)17-26

Reclaiming reverse osmosis blowdown with electrodialysis reversal
E.R. Reahl 78(1990)77-89

High recovery reverse osmosis
B.M. Watson 78(1990)91-97

Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants
M.A. Darwish, M. Abdel Jawad and G.S. Aly 78(1990)313-326

Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India
P.K. Tewari, S. Prabhakar and M.P.S. Ramani 79(1990)85-93

A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis
P.Lipp, B. Görge and R. Gimbel 79(1990)203-216

The effect of agitation on reverse osmosis desalination
J. Lora and J.M. Arnal 79(1990)261-269

Several engineering equations in the design of reverse osmosis plants
J. Zhou, H. Ohya and K. Matsumoto 80(1991)15-30

Reverse osmosis treatment of process water streams
A. Saavedra, G. Bertoni, D. Fajner and G.C. Sarti 82(1991)267-280

Fouling prediction in reverse osmosis processes
M. Barger and R.P. Carnahan 83(1991)3-33

Scale formation prognosis and cleaning procedure schedules in reverse osmosis systems operation
A.G. Pervov 83(1991)77-118

The proposal for the completely closed system in the Columbus Space Station
R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot 83(1991)123-136

Cord membrane — A new reverse osmosis membrane configuration
A.S. Bal 83(1991)301-324

The preparation of quaternized polysulfon membranes for low pressure reverse osmosis
Hao Jihua, Wang Wentong, Yang Puchen and Zhao Qingshuang 83(1991)361-371

Application of an austenitic nitrogen-alloyed 6Mo stainless steel for seawater desalination (RO) and waste water treatment
M. Jasner 84(1991)335-348

Development of a reliable low-cost reverse osmosis desalination unit for remote communities
R. Robinson, G. Ho and K. Mathew 86(1992)9-26

Seawater desalting for Southern California: Technical and economic considerations
G. Hess, O.J. Morin and W.V. Carrigan 87(1992)55-68

Selection, design and procurement of a demineralization system for a surface water treatment plant
J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis 88(1992)3-31

Evaluation of a pressure boosting pump/turbine device for reverse osmosis energy recovery: Extended testing on a seawater desalination system
M. Silbernagel, T. Kuepper and E. Oklejas 88(1992)311-319

Optimizing and planning of seawater desalination
W.F.J.M. Nooijen and J.W. Wouters 89(1992)1-20

Fractionation of aqueous organic mixtures by reverse osmosis
R. Rautenbach and A. Gröschl 90(1993)93-106

Controlled deposit formation to influence the retention of solutes in reverse osmosis and ultrafiltration
H.D. Obermeyer, U. Kulozik and H.G. Kessler 90(1993)161-172

Effect of structure controlled deposited layers on the retention of flavour compounds in reverse osmosis
C. Schwab, U. Kulozik and H.G. Kessler 90(1993)173-182

Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration
H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz 90(1993)345-361

High recovery reverse osmosis using a recycle loop
C.C. Herrmann 91(1993)279-292

Progress in distillation
R. Rautenbach 93(1993)1-13

Preliminary experiment on seawater pretreatment with UF membranes for RO desalination
T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto 93(1993)235-244

Technical and economic evaluation of distillation and reverse osmosis desalination processes
N.M. Wade 93(1993)343-363

Comparative evaluation of industrial membranes: Correlation between transport and operational parameters
S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta 94(1993)1-10

Recent renewable energy driven desalination system research and development in North America
J.F. Manwell and J.G. McGowan 94(1994)229-241

Retrofitting and repowering of coastal power stations to augment water supplies in Southern California
G.V. Sims and I. Kamal 94(1994)251-259

The TWIN™ permeator - Development and commercialization of a new RO device
T.J. Eckman, I. Moch, Jr. and C.P. Shields 96(1994)11-22

New disinfection method in RO seawater desalination systems
S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino 96(1994)191-199

Reliable supply of drinking water through use of high performance B-10 "TWIN" permeators. A one year case history at Das Island, UAE
H.W. Pohland, A.B. Hamida and K. Chida 96(1994)303-310

Reverse osmosis seawater desalination for power plant
M. Noshita 96(1994)359-368

Improved chelators and sequestrants for Army Reverse Osmosis Water Purification Units (ROWPUs)
C.A. Luu 97(1994)165-170

Hydro-powered reverse osmosis (RO) desalination for co-generation: A Middle East case study
M. Murakami 97(1994)301-311

Evaluation of reverse osmosis and evaporative desalination systems under feedwater supply constraints typical in arid countries
S.N. Talati 97(1994)353-361

Membrane applications in raw water treatment with and without reverse osmosis desalination
B. Ericsson and B. Hallmans 98(1994)3-16

KACST mobile drinking water treatment plant for research
A.I. Alabdula'aly and A.A. Chammem 98(1994)71-82

Potable water quality improvement for the city of Amsterdam
H.A. van den Berkmortel and A. Graveland 98(1994)83-103

Use of reverse osmosis in chlor alkali plant
K. Gurumoorthy and T. Swaminathan 98(1994)303-307

Economics of seawater desalination by reverse osmosis
S. Ebrahim and M. Abdel-Jawad 99(1994)39-55

Assessment of thermal effects on the reverse osmosis of salt/water solutions by using a spiral wound polyamide membrane
N.M. Al-Bastaki and H.I. Al-Qahtani 99(1994)159-168

Study of an analytical model for hollow fiber reverse osmosis module systems
M. Sekino 100(1995)85-97

Treatment of three types of landfill leachate with reverse osmosis
K. Linde, A. Jönsson and R. Wimmerstedt 101(1995)21-30

Brakish water RO desalination plant in the Gaza Strip
V. Frenkel and T. Gourgi 101(1995)47 -50

Effect of aging on the performance of RO hollow fiber membranes in a section of an RO plant
H.I. Al-Qahtany and N.M.S. Al-Bastaki 101(1995)177-183

Thermal annealing effect on cellulose acetate reverse osmosis membrane structure
M.-J. Han and D. Bhattacharyya 101(1995)195-200

Identification of scale deposits through membrane autopsy
F.H. Butt, F. Rahman and U. Baduruthamal 101(1995)219-230

Separation and purification of lactic acid: Fundamental studies on the reverse osmosis down-stream process
M.K.H. Liew, S. Tanaka and M. Morita 101(1995)269-277

Simple code for the estimation of scaling potential
M.A. Marwan, N.H. Aly and M.S. Saadawy 101(1995)279-286

Biofouing of PVD-1 reverse osmosis elements in the water treatment plant of the City of Dunedin, Florida
R.P. Carnahan, L. Bolin and W. Suratt 102(1995)235-244

Reverse osmosis treatment of municipal sewage effluent for industrial reuse
M. Wethern and W. Katzaras 102(1995)293-299

Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination
F.H. Butt, F. Rahman and U. Baduruthamal 103(1995)189-198

Model based control for reverse osmosis desalination processes
M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi 104(1996)59-68

Salt concentration and recovery from aqueous solutions using pressure-driven membrane processes
F.N. Karelin, A.A. Askerniya, M.L. Gril and O.F. Parilova 104(1996)69-74

Rejection of acetic acid and its improvement by combination with organic acids in dilute solutions using reverse osmosis
S. Hausmanns, G. Laufenberg and B. Kunz 104(1996)95-98

Design of membrane separation plants using a module data base
R. Günther and J. Hapke 104(1996)119-128

Salt and water permeability in reverse osmosis membranes
N.G. Voros, Z.B. Maroulis and D. Marinos-Kouris 104(1996)141-154

Anion rejection in a nitrate highly rejecting reverse osmosis thin-film composite membrane
L. Panyor and C. Fabiani 104(1996)165-174

RO performance analysis of cellulose acetate and TFC polyamide membrane systems for separation of trace contaminants
A.M. Hanra and V. Ramachandhran 104(1996)175-183

A study on the preparation of polyvinyl alcohol thin-film composite membranes and reverse osmosis testing
K. Lang, S. Sourirajan, T. Matsuura and G. Chowdhury 104(1996)185-196

On the calculation of reverse osmosis plants with spiral-wound membrane elements
V.S. Polyakov and S.V. Polyakov 104(1996)215-226

Potable water quality improvement for the City of Amsterdam
H.A. van den Berkmortel and A. Graveland 105(1996)11

Fouling of RO membranes by phthalate esters contamination
D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob 105(1996)13-20

Membrane autopsy — A case study
L.Y. Dudley and E.G. Darton 105(1996)135-141

Predictions of biological growth in RO systems and its influence on membrane performance
A.G. Pervov and M.M. Telitchenko 105(1996)173

Design and economics of RO seawater desalination
A. Malek, M.N.A. Hawlader and J.C. Ho 105(1996)245-261

Membrane filtration and reverse osmosis purification of sewage: Secondary effluent for re-use at Eraring Power Station
M. Masson and G. Deans 106(1996)11-15

Design of a 1.4 mgd desalination plant based on MSF and RO processes for an arid area in India
H.K. Sadhukhan and B.M. Misra 106(1996)17-23

Aspects of microfiltration and reverse osmosis in municipal wastewater reuse
S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider 106(1996)25-29

A comparative study of RO and MSF desalination plants
I.S. Al-Mutaz 106(1996)99-106

Opportunities for decentralized treatment, sewer mining and effluent re-use
R. Butler and T. MacCormick 106(1996)273-283

Effect of magnetic treatment on Gulf seawater
H. Al-Qahtani 107(1996)75-81

Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis
Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang 107(1996)217-221

Environmental impacts of seawater distillation and reverse osmosis processes
A.J. Morton, I.K. Callister and N.M. Wade 108(1996)1-10

Optimized brackish water desalination plants with minimum impact on the environment
P. Glueckstern and M. Priel 108(1996)19-26

Advanced MED solar desalination plants. Configurations, costs, future — Seven years of experience at the Platforma Solar de Almeria (Spain)
B. Milow and E. Zarza 108(1996)51-58

Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination
M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal 108(1996)83-89

Design of the maximum energy efficiency desalination plant (PAME)
A.A. Mesa, C.M. Gómez and R.U. Azpitarte 108(1996)111-116

Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept
V. Mavrov, H. Chmiel, B. Heitele and F. Rögener 108(1996)159-166

Production of quality drinking water with membranes
A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov 108(1996)167-170

Quality improvement of recycled chromium in the tanning operation by membrane processes
A. Cassano, E. Drioli, R. Molinari and C. Bertolutti 108(1996)193-203

Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis
R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz 108(1996)247-253

Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water
M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini 108(1996)261-271

Milk whey treatment with recovery of valuable products
G. Di Giacomo, G. Del Re and D. Spera 108(1996)273-276

Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants
I. Kamal and G.V. Sims 109(1997)1-13

Influence of organic matter from waste water on the permeability of membranes
W. Reimann 109(1997)51-55

Modeling osmotic pressures for aqueous solutions for 2-1 and 2-2 electrolytes
D. Van Gauwbergen, J. Baeyens and C. Creemers 109(1997)57-65

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)67-82

Alicante University, closed water cycle, reverse osmosis and water treatment plants
D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter 109(1997)315-321

Evaluation of SHMP and advanced scale inhibitors for control of $CaSO_4$, $SrSO_4$, and $CaCO_3$ scales in RO desalination
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)323-332

Stochastic modeling particle-size distribution in permeate and in concentrate on the stage of membrane pretreatment before reverse osmosis
S.P. Agashichev and E.A. Dmitriev 110(1997)75-91

Antiscale magnetic pretreatment of reverse osmosis feedwater
J.S. Baker, S.J. Judd and S.A. Parsons 110(1997)151-166

Waste water treatment using reverse osmosis: Real osmotic pressure and chemical functionality as influencing parameters on the retention of carboxylic acids in multi-component systems
V. Tödtheide, C. Laufenberg and B. Kunz 110(1997)213-222

Modeling and simulation of hollow fine fiber modules with radial dispersion - A parametric sensitivity study
I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani 110(1997)239-250

Reverse osmosis, Accelerated

Effects of acceleration on reverse osmosis desalination
G.B. Andeen 36(1981)265-275

Reverse osmosis, Acceleration

Effects of acceleration on spiral-wound membrane performance in reverse osmosis
J. C. Eid and G. B. Andeen 52(1984)15-24

Reverse osmosis, Alcose

Alclose reverse osmosis system
S. Koga and K. Ushikoshi 23(1977)105-112

Reverse osmosis, Centrifugal

The technical and economic benefits of centrifugal reverse osmosis desalination
P.M. Wild and G.W. Vickers 89(1992)33-40

Reverse osmosis composite membranes

Characteristics of PFI composite reverse osmosis membrane
Lu Xueren and Gao Congjie 62(1987)203-210

Characterization of composite membranes by their non-equilibrium thermodynamic transport parameters
D.J. Forgach, G.D. Rose and N.E. Luteneske 80(1991)275-292

Reverse osmosis concentration

The use of reverse osmosis as a 35,600 m^3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia
T. Bryant, J. Stuart, I. Fergus and R. Lesan 67(1987)327-353

Surface water discharge of reverse osmosis concentrates
P.J. Malaxos and O.J. Morin 78(1990)27-40

Disposal of reverse osmosis membrane concentrate
D. Squire, J. Murrer, P. Holden and C. Fitzpatrick 108(1996)143-147

Reverse osmosis, Continuous

Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions
F. Bellucci and N. Esposito 28(1979)181-191

Treatment of uranium containing effluents with reverse osmosis process
Kwanglung Lin, Minlin Chu and Muchang Shieh 61(1987)125-136

Reverse osmosis, development and application

The status of development and application of reverse osmosis and ultrafiltration technique in China
Lingying Zheng 54(1985)151-162

Reverse osmosis, economics

RO design optimization
N.M. Wade 64(1987)3-16

Cost and economic analysis of Doha reverse osmosis plant (Kuwait)
S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah 64(1987)65-82

Reverse osmosis, engineering aspects

Chemical engineering aspects of the reverse osmosis process
K.D.B. Johnson, J.R. Grover and D. Pepper 2(1967)40-55

Reverse osmosis equipment

Optimal perforation spacing in reverse osmosis support tubes
Y. Winograd and A. Solan 8(1970)237-241

Reverse osmosis in laminar flow through curved tubes
R.J. Nunge and L.R. Adams 13(1973)17-36

Development and field trial evaluation of a new reverse osmosis module system
J.R. Grover, R. Gayler and M.H. Delve 14(1974)93-102

Military requirements for water supply
R.P. Schmitt 19(1976)491-498

An alternative design concept in reverse osmosis desalination
K.W. Böddeker, W. Hilgendorff and J. Kaschemekat 20(1977)155-162

A miniature reverse osmosis/ultrafiltration system
A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer 24(1978)305-312

Development of one pass sea water reverse osmosis module "Hollosep"
T. Ukai, Y. Nimura, K. Hamada and H. Matsui 32(1980)169-178

Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications
T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan 32(1980)181-198

Reverse osmosis, Fluidized-bed

Mass transfer and the fluidized bed intensification of reverse osmosis
Wang Xuesong 62(1987)211-220

Reverse osmosis, High pressure

High-pressure techniques with porous glass membranes
R. Schnabel and W. Vaulont 24(1978)249-272

Purification of high temperature water by the reverse osmosis process
S. Kimura and T. Nomura 38(1981)373-382

Seawater reverse osmosis at high pressures
C. T. Sackinger 54(1985)19-26

Hybrid processes involving membranes for the treatment of highly organic/inorganic contaminated waste water
R. Rautenbach and R. Mellis
101(1995)105-113

Reverse osmosis, high temperature

New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration
M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner 105(1996)57-61

Reverse osmosis, Laminar flow

Reverse osmosis: Increased productivity by reduction of concentration polarization in laminar flow reverse osmosis using intermediate non-rejecting membrane sections
R.A. Shaw, R. Deluca and W.N. Gill
11(1972)189-205

Reverse osmosis, Low pressure

Performance of some improved porous cellulose acetate membranes for low pressure reverse osmosis desalination
B. Kunst and S. Sourirajan
8(1970)139-152

The thin-film composite low pressure reverse osmosis membranes
M. Kurihara, T. Uemura, Y. Nakagawa and T. Tonomura
54(1985)75-88

Pilot field test data for prototype ultra low pressure reverse osmosis elements
W. J. Conlon 56(1985)203-226

Desalination of high salinity brackish water. Low pressure reverse osmosis
P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf 58(1986)55-67

New thin-film composite low pressure reverse osmosis membranes and spiral wound modules
I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
64(1987)387-401

Low-pressure reverse osmosis drying membrane reinforced by polyester web
Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
64(1987)403-410

A low pressure reverse osmosis facility for Marco Island (FL)
R. Kadaj, D. McMillan and J. Losch
102(1995)25-26

Reverse osmosis, Low-temperature

Low temperatures and dissolved gases: two problems in submarinc sea water desalination
M. Hampe 34(1980)35-56

Reverse osmosis membranes

Replication electron microscopy of cellulose acetate osmotic membranes
R.L. Riley, U. Merten and J.O. Gardner 1(1966)30-34

Composite tubular assembly for reverse osmosis desalination
S. Loeb 1(1966)35-49

Performance of cellulose acetate membranes in sea water desalination
U. Merten, H.K. Lonsdale, R.L. Riley and K.D. Vos 3(1967)353-358

Behaviour of cellulose acetate membranes in reverse osmosis *(in French)*
R. Brun, E. Dubois and Y. Duriau
4(1968)119-130

Study of the outer dense layer of cellulose acetate membranes used in reverse osmosis *(in French)*
Y. Trudelle and L. Nicolas
4(1968)198-208

Storage, disinfection, and life of cellulose acetate reverse osmosis membranes
K.D. Vos, I. Nusbaum, A.P. Hatcher and F.O. Burris, Jr. 5(1968)157-166

The determination of the intrinsic characteristics of reverse osmosis membranes
C. Elata 6(1969)1-12

Some parametric studies in water desalination by reverse osmosis using porous cellulose acetate membranes
H. Ohya and S. Sourirajan
6(1969)153-178

Control of concentration polarization in reverse osmosis desalination of water
H. Strathmann and B. Keilin
6(1969)179-201

Selective properties of cellulose acetate membranes towards ions in aqueous solutions
T.D. Hodgson 8(1970)99-138

Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes
R.L. Riley, C.R. Lyons and U. Merten
8(1970)177-193

Concentration polarization at the phase boundary of an external tubular reverse osmosis membrane
C.K. Tsao 8(1970)243-258

Effect of porous backing substrates on membrane flux in reverse osmosis systems
A. Gollan and G. Dagan
8(1970)261-275

The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope
G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley
8(1970)369-391

Reverse osmosis in a curved tubular membrane duct
S. Srinivasan and C. Tien
9(1971)127-139, Err. 12(1973)277

Diffusion-layer structure in reverse osmosis channel flow
T.J. Hendricks and F.A. Williams
9(1971)155-180, Err. 9(1971)296

Rejection of carbon dioxide and pH effects in reverse osmosis desalination
C.E. Milstead, A.B. Riedinger and H.K. Lonsdale 9(1971)217-223

Improved cellulose acetate membranes for reverse osmosis
P.M. Fahey and H.E. Grethlein
9(1971)297-313

Concentration polarization in the reverse osmosis desalination of sea water
J.S. Johnson and J.W. McCutchan
10(1972)147-156

A new concept in reverse osmosis design
F.E. Littman, H.K. Bishop and G. Belfort 11(1972)17-30

Experimental reverse osmosis apparatus for membranes in the external surface of ceramic tubes
E. Korngold and F. de Körösy
11(1972)125-127

A method for the determination of the optimal reverse osmosis membrane for two-solute separation
L. Kiørboe, C.E. Boesen and G. Jonsson 12(1973)35-43

The effect of precipitating media on the performance of porous cellulose acetate reverse osmosis membranes
J.W. Carter, G. Psaras and M.T. Price
12(1973)177-188

A surface phenomenon occurring during the preparation of cellulose acetate reverse osmosis membranes
R. Matz 12(1973)273-275

Correction to "Reverse osmosis in a curved tubular membrane duct"
C. Tien and S. Srinivasan
12(1973)277-279, Err. 9(1971)127

Flow characteristics of semipermeable hollow fibers undergoing reverse osmosis
C. Chen and C.A. Petty
12(1973)281-293

The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope
G.J. Gittens, P.A. Hitchcock and G.E. Wakley 12(1973)315-332

On pore flow models for reverse osmosis desalination
M.N. Sarbolouki and I.F. Miller
12(1973)343-359

Recent advances in reverse osmosis membranes
H.K. Lonsdale 13(1973)317-332, Err. 14(1974)248, 14(1974)394

New polymer materials for reverse osmosis membranes
L. Credali, A. Chiolle and P. Parrini
14(1974)137-150

Reverse osmosis by dynamically formed cation exchanger membranes
J.W. Van Heuven and R.K. Bloebaum
14(1974)229-237

Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy
H.K. Plummer, Jr., C.D. Melvin and E. Eichen 15(1974)93-108

On a temperature correction coefficient for the water flux through reverse osmosis membranes of large scale systems
H. Ohya and Y. Taniguchi
15(1974)245-258

Salt transport in composite reverse osmosis membranes
L. Dresner 15(1974)371-374

On the comparison of reverse osmosis membrane performance
B. Kunst, G. Arneri and Z. Vajnaht
16(1975)169-177, Err. 17(1975)395

Reverse osmosis rejection on heavy metal cations
H.K. Johnston 16(1975)205-224

Analysis of reverse osmotic characteristics of American-standard type tubular module
H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka 16(1975)235-244

Study of the morphology and determination of the transport coefficients for reverse osmosis membranes
G. Boari, C. Merli, G. Mossa and R. Passino 16(1975)271-285

An analysis of reverse osmotic characteristics of ROGA-4000 spiral-wound module
H. Ohya and Y. Taniguchi
16(1975)359-373

Water and solute transport through cellulose acetate reverse osmosis membranes
G. Jonsson and C.E. Boesen
17(1975)145-165

Composite reverse osmosis membranes prepared from polyvinyl alcohol and toluene diisocyanate *(in French)*
R. Dick and L. Nicolas
17(1975)239-255

The permselective coefficient of inorganic ions on reverse osmosis membrane
M. Igawa, S. Yoshida, T. Yamabe and N. Takai 17(1975)257-265

Fouling of cellulose acetate tubular reverse osmosis modules treating the industrial water in Tokyo
S. Kimura and S.-I. Nakao
17(1975)267-288

Note on the paper "On the comparison of reverse osmosis membrane performance"
P. Dejmek 17(1975)395, Err. 16(1975)169

Hybrid reverse osmosis ultrafiltration membranes
S.B. Sachs, E. Zisner and G. Herscovici 18(1976)99-111

On the salt rejection of non-ionic polymeric membranes
P. Bo and V. Stannett
18(1976)113-135

New membranes for reverse osmosis. I. Characteristics of the base polymer: sulphonated polysulphones
C. Brousse, R. Chapurlat and J.P. Quentin 18(1976)137-153

The influence of mineral fillers on the membrane properties of high flux asymmetric cellulose acetate reverse osmosis membranes
I. Goossens and A. van Haute
18(1976)203-214

Reverse osmosis sea water test facility on board NS Otto Hahn
K.W. Böddeker, W. Hilgendorff and J. Kaschemekat 18(1976)307-313

Phenol-selective highly resistant RO membranes made from PVA for the purification of toxic industrial wastes
S. Peter, N. Hese and R. Stefan
19(1976)161-167

A survey of structure characterization methods for ultrafiltration and reverse osmosis membranes
C.A. Smolders, M.H.V. Mulder and P.M. van der Velden 19(1976)481

Hollow fiber composite reverse osmosis membrane
A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
20(1977)87-94

The desalting and recycling of wastewaters from textile dyeing operations using reverse osmosis
A.M. El-Nashar 20(1977)267-277

New polymeric materials for reverse osmosis membranes
R. Endon, T. Tanaka, M. Kurihara and K. Ikeda 21(1977)35-44

Reverse osmosis membranes from aromatic polymers
S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno 21(1977)183-194

Polymer-water interaction and its relation to reverse osmosis desalination efficiency
H. Strathmann and A.S. Michaels 21(1977)195-202

Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes
W.L. Thayer, L. Pageau and S. Sourirajan 21(1977)209-219

An analysis of reverse osmotic characteristics of B-9 hollow fiber module
H. Ohya 21(1977)257-274

The evaluation and selection of polymeric materials for reverse osmosis membranes
J.K. Beasley 22(1977)181-189

Hollow fiber composite membrane modules for reverse osmosis
R.B. Davis, R.D. Burchesky and M J. Coplan 22(1977)221-227

Progress in membrane development for reverse osmosis
C.W. Saltonstall, Jr. 22(1977)229-234

Low pressure composite membrane
R.G. Sudak and M.E. McKee 22(1977)235-242

Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane
T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani 22(1977)253-262

Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre
A.M. S. Al-Adsani, A.B. Hasan and A A. Malik 22(1977)271-280

Reverse osmosis by dynamic membranes
M. Igawa, M. Seno, H. Takahashi and T. Yamabe 22(1977)281-289

Development of PBIL low pressure brackish-water reverse osmosis membranes
R.L. Goldsmith, B A. Wechsler, S. Hara, K. Mori and Y. Taketani 22(1977)311-333

Development of PBIL low pressure brackish-water reverse osmosis membranes
R.L. Goldsmith, B A. Wechsler, S. Hara, K. Mori and Y. Taketani 22(1977)311-333

Desalination of sea water by reverse osmosis using tubular module
H. Tsuge, C. Yanagi and K. Mori 23(1977)235-243

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami 23(1977)331-355

The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes
G. Jonsson and C.E. Boesen 24(1978)17-18

Methods for determining the selectivity of reverse osmosis membranes
G. Jonsson 24(1978)19-37

Influence of pressure and/or pressure differential on membrane permeability
W. Pusch and G. Mossa 24(1978)39-53

Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films
A. Chapiro and A.-M. Jendrychowska-Bonamour 24(1978)83-91

Supplemental polymer coatings in reverse osmosis membrane improvement and regeneration
G. L. Dalton, H. S. Pienaar and R. D. Sanderson 24(1978)235-248

An analysis of reverse osmosis characteristics of ROGA spiral-wound modules
Y. Taniguchi 25(1978)71-88

Properties of reverse osmosis membranes prepared from poly(4-vinyl pyridine)-acrylonitrile copolymer and the partially quaternized copolymer
E. Oikawa and T. Ohsaki 25(1978)187-206

Concentration polarization and solute membrane interactions affecting pressure driven membrane processes
E. Drioli and F. Bellucci 26(1978)17-36

Asymmetric polyimide membranes for filtration of non-aqueous solutions
H. Strathmann 26(1978)85-91

Deformed reverse osmosis membrane and low pressure operation
J.M. Guerrero and L.F. del Castillo 26(1978)141-151

An expression method of compaction effects on reverse osmosis membranes at high pressure operation
H. Ohya 26(1978)163-174

The use of direct osmosis tests as complementary experiments to determine the water and salt permeabilities of reinforced cellulose acetate membranes
I. Goossens and A. van Haute 26(1978)299-308

Explicit flux expressions in tubular reverse osmosis desalination
G.H. Rao and K.K. Sirkar 27(1978)99-116

Studies on the treatment of gold plating rinse by reverse osmosis
C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami 27(1978)261-272

Long term experiments on sea water desalination at the Chigasaki Laboratory
Y. Kunisada and Y. Murayama 27(1978)333-344

Salt rejection and flux in reverse osmosis with compactible membranes
W.C.M. Henkens and J.A.M. Smit 28(1979)65-85

Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics
M. Mitrovic and L. Knezic 28(1979)147-156

Five year's experience with reverse osmosis systems using Du Pont "Permasep" permeators
C.P. Shields 28(1979)157-179

Reverse osmosis by composite charged membranes
H. Nomura, M. Seno, H. Takahashi and T. Yamabe 29(1979)239-246

Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis
M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara 32(1980)13-23

A new thin-film composite seawater reverse osmosis membrane
J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson 32(1980)25-31

Dynamic polyacrylamide membranes in the reverse osmosis
S. Antoniou, J. Springer and A. Grohmann 32(1980)47-55

Techniques for achieving high recovery from saturated water sources using reverse osmosis membranes
O.E. Kirchner 32(1980)223

Advanced reverse osmosis process with automatic sponge ball cleaning for the reclamation of municipal sewage
C. Yanagi and K. Mori 32(1980)391-398

Energy and water conservation through recycle of dyeing wastewater using dynamic Zr(IV)-PAA membranes
A.M. El-Nashar 33(1980)21-47

Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes
G. Mossa, R. Passino and M. Pegoraro 34(1980)57-67

Morphology of aromatic polyamide type asymmetric reverse osmosis membranes
Chen Jiayan, Bi Shuchun, Zhang Xingda and Zheng Lingying 34(1980)97-112

Scanning electron microscopy study on reverse osmosis membranes prepared from Indian cellulosic polymers
R.N. Kapadia and V.P. Pandya 34(1980)199-215

Overview of theories for water and solute transport in UF/RO membranes
G. Jonsson 35(1980)21-38

Development of a new asymmetric alloy membrane for water desalination
P. Aptel and I. Cabasso 36(1981)25-37

Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone
C. Friedrich, A. Driancourt, C. Noël and L. Monnerie 36(1981)39-62

Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application
F. Vigo, G. Capannelli, C. Uliana and S. Munari 36(1981)63-73

The effect of pressure on the bulk polymer microstructure in cellulose acetate reverse osmosis membranes
G. Arneri 36(1981)99-104

Recent developments in thin-film composite reverse osmosis membrane systems
R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami 36(1981)207-233

Adsorption of water on cellulose acetate membrane
Y. Kurokawa 36(1981)285-290

Reverse osmosis with a cellulose acetate membrane in the reverse orientation
J.A.M. Smit 36(1981)291-297

A physicochemical approach for the choice of polymeric membrane materials for water desalination by reverse osmosis
T. Matsuura, Y. Taketani and S. Sourirajan 38(1981)319-337

Hollow fine fiber vs. flat sheet membranes: A comparison of structures and performance
J.K. Beasley and R.E. Penn 38(1981)361-372

Single-pass desalination of high salinity seawater with reverse osmosis
H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai 38(1981)441-447

Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials
M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi 38(1981)449-460

The FT-30 seawater reverse osmosis membrane: Element test results
R.E. Larson, J.E. Cadotte and R.J. Petersen 38(1981)473-483

Experiments with desalination of Arabian Gulf water
M. El-Salem 39(1981)261-271

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

Recent advances in reverse osmosis and electrodialysis membrane desalting technology
M. E. Mattson and M. Lew 41(1982)1-24

RO separation of rare earth ions from aqueous solution by hydrous Fe oxide-cellulose composite membrane
Y. Kurokawa 41(1982)115-119

Effect of recovery on desalination of the Black Sea water by reverse osmosis
I. Dobrevsky, V. Mavrov and B. Bonev 41(1982)209-214

On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis
Y. Ogawa and S. Suzuki 42(1982)57-61

Reverse osmosis separation of inorganic salts using polyvinylalcohol membranes
Ho Nam Chang 42(1982)63-77

Morphological study of cellulose acetate benzoate membranes by scanning electron microscopy
M.D. Vyas and I.C. Mody 42(1982)107-114

Passage of water and electrolytes through natural and artificial keratin membranes
G. D. Stokes and W. A. Dunson 42(1982)321-328

Experience with desalination of sea and brackish water using minimum pretreatment and high temperature
W.K. Nielsen 46(1983)67-79

Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements
R. E. Larson, R. J. Petersen and P. K. Eriksson 46(1983)81-90

Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules
M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura 46(1983)101-110

Reverse osmosis in seawater concentration
D. Sambrailo, B. Kunst and H. Ivekovic 46(1983)125-133

Desalination of high salinity sea water by reverse osmosis (Summary)
Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama 46(1983)145-150

Two-stage reverse osmosis seawater desalination
J. Kaschemekat, W. Hilgendorff, K. W. Böddeker, A. M. Hassan and A. L. A. Malik 46(1983)151-156

The mechanism of the formation of aromatic polyamide type asymmetric RO membranes
Guanghu Fan, Baoquan Zhao, Jiayan Chen and Lingying Zheng 46(1983)321-326

Dry-RO membranes from blends of ionogenic and nonionogenic polymers
R.E. Kesting, J.M. Newman, K.T. Nam and J.F. Ditter 46(1983)343-348

Semi-stiff chain aromatic polyamic-acids: new candidates for reverse osmosis membranes
J. Adduci, L. L. Chapoy, G. Jonsson, J. Kops and B. M. Shinde 46(1983)349-350

Development of cord membranes: A new reverse osmosis membrane configuration
A. S. Bal and S. Peter 46(1983)351-352

Changes in water and salt transport during hydrolysis of cellulose acetate reverse osmosis membranes
J. Glater and S. McCray 46(1983)389-397

The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes
G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard 46(1983)435

Asymmetric behavior of membranes in pressure driven processes
V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela 46(1983)447-454

Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface
Y. Taketani, T. Matsuura and S. Sourirajan 46(1983)455-466

Effects of acceleration on particulate fouling in reverse osmosis
J.C. Eid and G.B. Andeen 47(1983)191-199

Treatment of pulp/paper bleach effluents by reverse osmosis
M.J. Simpson and G.R. Groves 47(1983)327-333

Studies on the application of RO in treatment of rayon plant effluent
S. Basu and S. Moulik 47(1983)335-342

The desalination of coalmine drainage water by reverse osmosis
R.C. Squires, J.A.C. Cowan and F.C. Wood 47(1983)343-350

Reverse osmosis membrane sensitivity to ozone and halogen disinfectants
J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan 48(1983)1-16

Initial flux decline of the cellulose acetate butylate membranes with time under RO performance
Y. Mashiko, Y. Kurokawa and S. Saito 48(1983)147-160

Bentonite-stabilized CDA/CTA membranes: I. Improved long-term transport properties
H. Finken 48(1983)207-222

Bentonite-stabilized CDA/CTA membranes: II. Determination of the transport coefficients l_{ep} and l_p
H. Finken 48(1983)235-251

An experimental study of the complete-mixing model for radial flow hollow fiber reverse osmosis systems
M. Soltanieh and W. N. Gill 49(1984)57-88

A note on fluoride removal by reverse osmosis
B.R. Min, A.L. Gill and W.N. Gill 49(1984)89-93

Optimal conditions for obtaining polymeric membranes in binary systems: a numerical analysis
C. Castellari and S. Ottani 49(1984)141-152

Precise measurement of membrane constants of cellulose acetate membranes by direct osmosis tests
M. Matsuda and C. Kamizawa 49(1984)367-378

Reverse osmosis membrane research in China
Lingying Zheng 50(1984)115-124

New thin-film composite reverse osmosis membranes and spiral wound modules
Y. Kamiyama, N. Yoshioka, K. Matsui and K. Nakagome 51(1984)79-92, Err. 51(1984)336

Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack
J. C. Watters, E. Klein, M. Fleischman, J. S. Roberts and B. Hall 60(1986)93-110

The influence of different types of metal complex on the transitivity of reverse osmosis membranes
Ling Ai-lian, Gao Yi-yuan and Wang Zhi-zhong 62(1987)377-394

Membrane development for seawater desalination
E. Drioli 63(1987)57-69

Performance evaluation of three different seawater RO membranes at DROP in Kuwait
A. L. A. Malik, K. M. Mousa, N. G. Younan and B. J. R. Rao 63(1987)163-192

RO-module with ultrasonic welded membranes
F. Patocka, S. Fries and H. Timm 64(1987)423-430

Water production in Kuwait - Its management and economics
A.M.R. Al-Marafie and M.A. Darwish 71(1989) 45-55

Low-energy membrane nanofiltration for removal of color, organics and hardness from drinking water supplies
B.M. Watson and C.D. Hornburg 72(1989)11-22

Modeling of calcium sulphate fouling of reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 72(1989)293-318

The effects of chlorine dioxide on reverse osmosis membranes
W.R. Adams 78(1990)439-453

Crystallization of calcium sulfate on reverse osmosis membranes
E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris 79(1990)47-63

Sea water applications with FILMTEC reverse osmosis membranes from small to large plants in 10 years
J.A. Redondo and K.F. Frank 82(1991)31-49

Bacteria and membranes: Ending a bad relationship
H.F. Ridgway 83(1991)53

Polysulfone amide (PSA) asymmetric reverse osmosis membrane
G. Congjie, L. Xueren and B. Zhiguo 83(1991)271-278

Reverse osmosis membrane research facility at Bharat Heavy Electricals and its application for desalination in India
G.V.S. Rao 83(1991)385

The effects of small halocarbons on RO membrane performance
R. Cheng, J. Glater, J.B. Neethling and M.K. Stenstrom 85(1991)33-44

The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I.
M.J. Hurndall, E.P. Jacobs and R.D. Sanderson 86(1992)135-154

Flux decline due to gypsum precipitation on RO membranes
M. Brusilovsky, J. Borden and D. Hasson 86(1992)187-222

Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes
R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen 90(1993)15-29

Aromatic polyamide-hydrazides for water desalination. II. RO membrane performance of terpolymers
M.D. Satre and N.D. Ghatge 91(1993)121-133

Characterization of the reverse osmosis membranes CA 80 and CA 95 by transport coefficients
S. Velikova, V. Mavrov and M. Marinov 91(1993)293-306

Synthesis of poly(2,5-pyridinedicarboxylic acid-*alt*-hydrazine) and reverse osmosis performance of its membranes
E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki 94(1993)25-36

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-*alt*-maleic anhydride)
E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)37-54

Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate
E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen 94(1993)115-132

Characteristics of a chlorine-resistant reverse osmosis membrane
R. Singh 95(1994)27-37

Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer
M. Elimelech, W.H. Chen and J.J. Waypa 95(1994)269-286

The search for a chlorine-resistant reverse osmosis membrane
J. Glater, S.-K Hong and M. Elimelech 95(1994)325-345

Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A.
S.H. Suemoto, L.A. Haugseth and C.D. Moody 96(1994)43-50

Noble reverse osmosis composite membrane
K. Ikeda and J. Tomaschke 96(1994)113-118

Performance of reverse osmosis membrane in Jeddah Phase I plant
Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama 96(1994)215-224

Cleaning and regeneration of membranes in desalination and wastewater applications: State-of-the-art
S. Ebrahim 96(1994)225-238

Analysis of RO elements operated at more than 80 plants in Japan
K. Tasaka, T. Katsura, H. Iwahori and Y. Kamiyama 96(1994)259-272

Decision making strategy for handling biocides. Experience at Yuma Desalting Plant (Yuma, AZ, USA)
E.M. Abart 97(1994)437-441

Advanced reverse osmosis membrane modules for novel ultrapure water production process
T. Ikeda, H. Muragishi, R. Bairinji and T. Uemura 98(1994)391-400

Studies in piperazine containing poly(sulphone-amide)s for use in water desalination
M.V. Biware and N.D. Ghatge 101(1995)93 -100

Chemical treatment for improved performance of reverse osmosis membranes
D. Mukherjee, A. Kulkarni and W.N. Gill 104(1996)239-249

Industrial water production by utilization of a reverse osmosis and an evaporation plant
R. Borsani, M. Fazio and B. Ferrando 108(1996)231-245

Wind energy exploitation for reverse osmosis desalination plants
C.T. Kiranoudis, N.G. Voros and Z.B. Maroulis 109(1997)195209

Reverse osmosis membranes, charged

Charged membranes for low pressure reverse osmosis properties and applications
A. Yaroshchuk and E. Staude 86(1992)115-134

Reverse osmosis membranes, cleaning

Membrane fouling and cleaning at DROP
S. Ebrahim and A. Malik
66(1987)201-221

Reverse osmosis membranes, dynamic

Multidimensional response surfaces in the characterization, comparison and optimization of membranes
P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
61(1987)103-123

Reverse osmosis membranes, fouling

About the mechanism of formation of iron hydroxide fouling layers on reverse osmotic membranes
J.M. Jackson and D. Landolt
12(1973)361-378

Precipitation of calcium carbonate on reverse osmosis membranes
E. Mitsoyannis and G.D. Saravacos
21(1977)235-240

Pretreatment of reverse osmosis feedwater by means of in line coagulation
J. C. Schippers, J. Verdouw and J. M. Hofman 32(1980)103-112

The pretreatment of seawater RO feed using the UVOX (W/oxidant) process
D. Hebden and G. R. Botha
32(1980)115-126

Colloidal fouling of reverse osmosis membranes
M.T. Brunelle 32(1980)127-135

Membrane filtration of NSSC-waste liquor
G. Jonsson and S. Kristensen
32(1980)327-349

A critical review of fouling of reverse osmosis membranes
D. E. Potts, R. C. Ahlert and S. S. Wang 36(1981)235-264

Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes
J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr. 37(1981)307-311

Controlling biological activity in a surface water reverse osmosis plant
G.E. Bettinger 38(1981)419-424

Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities
J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter
48(1983)293-297

Fouling of RO membranes in wastewater applications
M.L. Arora and K.M. Trompeter
48(1983)299-319

Treatment of highly fouling waste waters with tubular membrane systems
S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru 49(1984)347-355

The composition and structure of reverse osmosis foulant deposits formed from Rand Water Board water: A preliminary investigation
J.P. Leger and L.C. Hawker
61(1987)137-158

Some observations on the considerable variability of silt density index results due to equipment, filter and operator variables
N. R. G. Walton 61(1987)201-210

Pretreatment system in reverse osmosis plants
T. K. Osta and L. M. Bakheet, Sr.
63(1987)71-80

Trace metal fouling and cleaning of seawater RO membranes
G. Peplow and F. Vernon
66(1987)271-284

Control of organic fouling at two seawater reverse osmosis plants
H. Winters 66(1987)319-325

Reverse osmosis membranes, industrial application

Characterization of a new reverse osmosis composite membrane for industrial application
A. J. Naaktgeboren, G. J. Snijders and J. Gons 68(1988)223-242

Reverse osmosis membranes, poly-2-vinylimidazoline

Modified poly-2-vinylimidazoline reverse osmosis membranes. II
M.J. Hurndall, E.P. Jacobs, A.J. Van Reenen and R.D. Sanderson
89(1992)203-222

Poly(2-vinylimidazoline) composite reverse osmosis membranes
M.J. Hurndall, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
90(1993)41-54

Reverse osmosis membranes, polyamide

The effect of dissolved oxygen in water on the performance of a high rejection polyamide reverse osmosis membrane
P.K. Eriksson 83(1991)249-260

Biofouling prevention in RO polymeric membrane systems
M.A. Saad 88(1992)85-105

Reverse osmosis membranes, recovery

Pilot experiences on the recovery of polluted reverse osmosis membranes
M. Fariñas, J. M. Granda, L. Gurtubai and M. J. Villagra 66(1987)385-402

Reverse osmosis membranes, scaling

Analysis of RO flux decline due to membrane surface blockage
J. Borden, J. Gilron and D. Hasson
66(1987)257-269

Reverse osmosis membranes, see Membranes, hollow fiber

Reverse osmosis mobile units

Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait
A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
75(1989)341-361

Reverse osmosis, model studies

Reverse osmosis desalination in tubular membrane duct
S. Srinivasan and C. Tien 3(1967)5-16

Reverse osmosis in multicomponent systems
S. Srinivasan and C.Tien
5(1968)139-158

Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
5(1968)237-265

Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
6(1969)131-152

Optimization of a reverse osmosis system using nonlinear programming
G.B. Hatfield and G.W. Graves
7(1970)147-177

Iterative analysis of a continuous system for desalination by reverse osmosis
Meikao Liu 9(1971)181-191

Mathematical modelling of reverse osmosis and ultrafiltration processes
J. Murkes and H. Bohman
11(1972)269-301

Effect of imperfect salt rejection on concentration polarization in reverse osmosis systems
S. Srinivasan and C. Tien
13(1973)287-301

A buoyancy-dominated desalination unit
C.A. Hieber 15(1974)59-91

Thermodynamic approach to reverse osmosis and the low pressure membrane
L.F. del Castillo 19(1976)211-220

Parameters influencing the characterization of C.A. membrane and a new rejection mechanism
R. Flores, A. Flores and L.F. del Castillo 19(1976)221-228

Concentration polarization in a reverse osmosis test cell
G. Jonsson and C.E. Boesen
21(1977)1-10

Concentration polarization profile for dissolved species in unstirred batch hyperfiltration (reverse osmosis). II. Transient case
D. Mahlab, N. Ben Yosef and G. Belfort 24(1978)297-303

Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets
A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini 26(1978)3-16

Physical aspects governing the design of hollow fiber modules
J. J. Hermans 26(1978)45-62

Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler
34(1980)25-34

Predicting flux decline of reverse osmosis membranes
J. C. Schippers, J. H. Hanemaayer, C. A. Smolders and A. Kostense
38(1981)339-348

Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis
G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov
46(1983)171-177

Short cut design methods for reverse osmosis separation with tubular modules
K. K. Sirkar and G. H. Rao
48(1983)25-42

Thermodynamics of ternary systems in reverse osmosis
M.W. Vonk and J.A.M. Smit
48(1983)105-119

Modelling of modules and systems in reverse osmosis. Part I: Theoretical system design model development
M.L. Costa and J.M. Dickson
80(1991)251-274

Reverse osmosis modules

Desalination by the newly developed reverse osmosis module
S. Kimura, T. Nomura and G. Ikeda
22(1977)263-270

Trends in design and performance of commercially available reverse osmosis modules
J. D. Birkett 46(1983)91-100

Reverse osmosis treatment and reuse of textile dyehouse effluents
K. Treffry-Goatley, C. A. Buckley and G. R. Groves 47(1983)313-320

Design and optimization of spiral-wound and hollow fiber RO-modules
R. Rautenbach and W. Dahm
65(1987)259-275

Start-up of RO modules after a very long storage time: A case history
J.M. Rovel and L. Daniel
65(1987)373-379

Some experimental results and design calculations for reverse osmosis concentration of green tea juice
Shi Qiu Zhang, A.E. Fouda, T. Matsuura and Kam Chan
80(1991)211-234

Reverse osmosis, Multistage

Optimal design of desalination systems
L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang 3(1967)225-236

Reverse osmosis, Nitrate reduction

Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs
R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes
65(1987)241-258

Reverse osmosis performance

Synthesis and study of RO performance of aromatic polyamide hydrazide membranes
M.P.S. Ramani and V. Ramachandhran 90(1993)31-40

Reverse osmosis permeators

The significance of colour changes in some reverse osmosis permeators
N.R.G. Walton 68(1988)29-33

Behavior of stepped GRP shells used in the reverse osmosis permeators for the water desalination process
N.M.S. Al-Bastaki 94(1994)307-319

Reverse osmosis plants

Reverse osmosis desalination costs derived from the Coalinga pilot plant operation
D. Stevens and S. Loeb 2(1967)56-74

Sixteen months of field experience on the Coalinga pilot plant
S. Loeb and E. Selover 2(1967)75-80

Reverse osmosis pilot plant operation: a spiral module concept
T.J. Larson 7(1970)187-199

Comparison of practical operating data and computer simulation of seawater reverse osmosis plant
A.S. Hodgson 1(1972)113-123

Sea water desalination by reverse osmosis. Recent experience
P. Treille and J.M. Rovel 14(1974)21-31

Systems analysis of a multi-stage tubular module reverse osmosis plant for sea water desalination
J.W. McCutchan and V. Goel 14(1974)57-76

Estimating short-run operating costs for a reverse osmosis desalting plant
C.R. Scherer and M.C. Chan 18(1976)241-258

Practical aspects of sea water desalination by reverse osmosis
C.W. Saltonstall, Jr. 18(1976)315-320

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs
J.J. Allard, J.M. Rovel and P. Treille 19(1976)169-174

Off shore sea water reverse osmosis plants
H. Lerat 19(1976)201-210

Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA
K.G. Patel, F.L. Harris and K.C. Channabasappa 19(1976)381-388

Reverse osmosis for Yuma desalting plant
R.G. Sudak and A.M. Desai 19(1976)389-396

Large scale water reclamation by reverse osmosis
T.J. Larson and D.G. Argo 19(1976)421-432

600,000 GPD (I) reverse osmosis for 15,000 mg/l lake water
R.A. Tidball 20(1977)19-26

Reverse osmosis to achieve water control and recycle
R.T. Heizer and C.E. Plock 20(1977)61-69

Design and operation of a 5000 m^3/d reverse osmosis dual product plant
R. Blevitt and J.L. Hooper 20(1977)119-142

Potable water supply of Riyadh, the Saudi Arabia Kingdom's capital city, by reverse osmosis desalting plants
J.J. Allard, J.M. Rovel and P. Treille 20(1977)227-237

Reverse osmosis desalting plant for industrial water at Kashima in Japan
T. Kasamatsu and J.G. Gaydos 20(1977)335-342

Long-term experiences of 3.5 mgd ROGA-spiral reverse osmosis installation
Y. Taniguchi 20(1977)353-364

Practical behaviour of electrodialysis and reverse osmosis plants in Libya
H. El-Hares and M. Aswed 22(1977)291-298

Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia
J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi 22(1977)299-309

High recovery reverse osmosis with strontium sulfate in a brackish well water source
G. Milton and D.H. Furukawa 22(1977)335-343

Membrane performance reports on reverse osmosis plants using Permasep® permeators since 1972
W.J. Godfrey, Jr. 22(1977)435-443

Second report on the operation of a 75,000 gpd seawater reverse osmosis plant (Ras Al Mishab, Saudi Arabia)
T. Dupee and W. Andrews 22(1977)445-455

Study of one pass sea water reverse osmosis with 21,000 gpd capacity
N. Obiya 22(1977)457-464

Four years experience in operation of a 1500 m^3/d RO plant
J.M. Rovel 22(1977)485-493

Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light
H. Sliger and R. Quinn 23(1977)37-47

RO applications in wastewater reclamation for re-use
T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi 23(1977)65-76

Operation of reverse osmosis process for industrial waste water reclamation
Y. Kojima and M. Tatsumi 23(1977)87-95

High recovery in the Yuma desalting plant
J.W. Kaakinen, R.J. Eisenhauer and C. van Hoek 23(1977)357-366

Performance of hydranautics reverse osmosis (RO) units at Yuma desalting test facility
A. Desai 23(1977)367-381

Design and operation of a turnkey 17,000,000 gpd reverse osmosis water treatment plant: Buwayb, Riyadh V, Saudi Arabia
W.S. Finlay and P.V. Ferguson 23(1977)389-399

Orange County's 5 mgd reverse osmosis plant
N.L. Richardson and D.G. Argo 23(1977)563-573

Reverse osmosis pilot plants performance in brackish water desalination
G. Boari, C. Carrieri, P. Mappelli and M. Santori 24(1978)341-364

Application of membrane processes for water supply in Israel
P. Glueckstern, Y. Kantor and M. Wilf 24(1978)365-376

Seawater reverse osmosis system projects, a manufacturer's viewpoint
B. Andrews 25(1978)227-231

Explicit flux expressions in tubular reverse osmosis desalination
G.H. Rao and K.K. Sirkar 27(1978)99-116

Status of the Yuma desalting plant
L.A. Haugseth 27(1978)157-174

Las Palmas Phase II desalination plant in the Canary Islands (Spain)
J. Guzman 27(1978)175-187

The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia
A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton
27(1978)215-231

Reverse osmosis: Field trials of a GKSS plate module plant on Baltic Sea water
H. Finken, J. Kaschemekat and J. Mohn 29(1979)285-294

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj 29(1979)319-329

They said it couldn't be done — The Orange County, California experience
P.K. Allen and G.L. Elser
30(1979)23-38

Features of desalination plants in semi-arid areas
A.H. Nasrat and T.V. Balakrishnan
30(1979)187-202

Field testing and economic evaluation of RO seawater technology
P. Glueckstern, M. Wilf and Y. Kantor 30(1979)235-245

Jeddah seawater reverse osmosis installation
C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton
30(1979)259-281

Riyadh's reverse osmosis water treatment plants — The largest demineralization complex in the world
H.E.A. Ghulaigah and B. Ericsson
30(1979)301-314

Performance study of RO systems in Saudi Arabia
R.R. Doelle and C.K. Wojcik
30(1979)315

Economic aspects of membrane processes
O.K. Buros 30(1979)595-603

Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant
S. C. May, E. H. Houle, S. A. Reed and W. F. Savage 30(1979)605-612

Seawater desalination and reverse osmosis plant design
H.W. Pohland 32(1980)157-167

Design and operation of 800,000 gpd reverse osmosis seawater system
R. Quinn 32(1980)179

Operating experiences with seawater reverse osmosis plants in the Middle East
R.A. Tidball and D. Kuiper
32(1980)199

Off-shore inverse osmosis without chemical pretreatment: balance of years of experience and extension to land-based units *(in French)*
H. Lerat 32(1980)201-210

Eight-year operational experience with a 13,400 m^3/d reverse osmosis desalination plant at Kashima Works of Sumitomo Metals
K. Horio 32(1980)211-220

Seawater reverse osmosis — Statement of the art assessment
S.R. Latour 32(1980)221

Design aspects of a solar assisted reverse osmosis desalting unit for urban communities
A.M. El-Nashar and A.A. Husseiny
32(1980)239-256

Hydraulic turbine energy recovery — RO system
R. Singh and S.V. Cabibbo
32(1980)281-296

Energy recovery and pumping for 70-bar seawater osmosis *(in French)*
L. Goulvestre and C. Lepert
32(1980)297-302

Industrial wastewater treatment for reuse with reverse osmosis
A.M. El-Nashar 32(1980)411

Salbukh reverse osmosis plant on stream
B. Ericsson 33(1980)109-113

Conceptual design aspects of reverse osmosis
D. Kuiper and M. Mendia
35(1980)273-289

Parametric study of cost factors in RO desalination (GKSS plate system)
J. Kaschemekat and K.W. Böddeker
36(1981)75-85

A comparison of the relative economics of sea water desalination by vapour compression and reverse osmosis for small to medium capacity plants
R. Matz and U. Fisher
36(1981)137-151

Reverse osmosis in the desalination of brackish water and sea water
L. Ludwig 36(1981)153-178

The performance of the 12,000 m^3/day seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia
A.M. El-Nashar and I. Kutbi
38(1981)399

Pretreatment and operating experience on reverse osmosis plant in the Middle East
D. Pepper 38(1981)403-417

Building and commissioning the 3.0 Mgd seawater RO plant for Key West, Florida
W. W. Boesch 38(1981)485-496

Design of a small solar-powered desalination system
T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione 39(1981)71-81

Waste heat powered reverse osmosis plants
R.A. Tidball and R. Kadaj
39(1981)137-145

Reliability of the Jeddah seawater RO desalination plant based upon operations experience
I.I. Kutbi, A.M. Metwally, Z.A. Sabri and A.A. Husseiny 39(1981)179-191

Performances study of water desalination methods in Saudi Arabia
A.G. Maadhah and C.K. Wojcik
39(1981)205-217

Operating experience on RO sea water desalination plant at Chigasaki Laboratory
Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
39(1981)413-421

The application of Pelton type impulse turbines for energy recovery on sea water reverse osmosis systems
D. J. Woodcock and I. Morgan White
39(1981)447-458

Preliminary considerations of combining a large reverse osmosis plant with the Mediterranean — Dead Sea project
P. Glueckstern 40(1982)143-156

Distillation and reverse osmosis: Energy consumption and costs
N.M. Wade and M.R. Hornsby 40(1982)245-257

Considerations of energy consumption in desalination by reverse osmosis
A. B. Riedinger and C. E. Hickman 40(1982)259-270

Energy advantages of reverse osmosis in seawater desalination
C.T. Sackinger 40(1982) 271-281

Seawater desalting energy requirements as a function of various local conditions
A. C. F. Ammerlaan 40(1982)317-326

Seawater reverse osmosis with energy recovery
W.A.G. Hoeting 40(1982)357-361

World's first solar powered reverse osmosis desalination plant
W.W. Boesch 41(1982)233-237

Performance of the 12,000 m^3/d seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia, January 1979 through January 1981
A. Muirhead, S. Beardsley and J. Aboudiwan 42(1982)115-128

Calculation of the expected performance of reverse osmosis plants
C.W. Saltonstall, Jr. and R.W. Lawrence 42(1982)247-253

Reliability analysis of reverse osmosis plant
I.I. Kutbi, Z.A. Sabri and A.A. Husseiny 42(1982)291-313

Capacity adaption of reverse osmosis systems by temperature and pressure control of the raw water
K. Heybach 44(1983)85-90

A specific energy recovery pumping system for reverse osmosis desalination
P. Goubeau and P. Leroy 44(1983)199-206

Design aspects of large sea water reverse osmosis desalination plants
C.D. Hornburg and O.J. Morin, Jr. 45(1983)241-249

Parametric study on seawater reverse osmosis desalting plants
R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen 46(1983)3-15

Desalination of water in Saudi Arabia by reverse osmosis. Performance study
C.K. Wojcik 46(1983)17-34

Membrane replacement. Permasep® reverse osmosis desalination
C.T. Sackinger 46(1983)41-55

Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements
R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura 46(1983)57-66

The Malta seawater reverse osmosis facility
W.T. Andrews, J.H. Sleigh and R.A. Bergman 46(1983)111

Seawater desalination by reverse osmosis
K. Marquardt, R. Nagel and H. Seeger 46(1983)135-143

Large seawater reverse osmosis plant: Design considerations
M. A. A. Soleman, J. de Graauw and W. van Putten 46(1983)163-170

RO desalting of brackish water oversaturated with CaSO4
M. Wilf and J. Ricklis 47(1983)209-220

Control of biological fouling in seawater reverse osmosis desalination
H. Winters, I. Isquith, W.A. Arthur and A. Mindler 47(1983)233-237

Yuma desalting test facility: Foulant component study
C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty 47(1983)239-253

Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration
C.V. Devmurari and M.V. Chandorikar 48(1983)331-337

The integration of a reverse osmosis installation in the fully automated operation of a rural water supply company
F. Bergmann and B. Schuette 49(1984)203-214

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady 49(1984)271-292

How to obtain highest plant efficiency for RO desalination plant
Y. Mimura, S. Taniguchi and E. Tatsumura Mashima 54(1985)219-225

The city of Cape Coral demonstrates reverse osmosis is cost effective and operationally efficient
M. R. Ashton 65(1987) 277-320

Monitoring and control of biological activity in Permasep® seawater RO plants
L.E. Applegate and C.W. Erkenbrecher, Jr. 65(1987)331-359

Operational experience of reverse osmosis plants for drinking water in Indian villages
S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani 65(1987)361-372

Corrosion engineering of high pressure piping in RO-plants
S. Nordin and J. Olsson 66(1987)235-244

Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar
G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig 66(1987)443-454

A mobile reverse osmosis demonstration plant
V.J. Shah, R.M. Kava, A.V. Rao and M.M. Taqui Khan 69(1988)161-169

Biological fouling and control at Ras Abu Jarjur RO Plant - A new approach
S.R. Ahmed, M.S. Alansari and T. Kannari 74(1989)69-84

On the standardization of performance data for reverse osmosis desalination plants
B.A.Q. Darwish, M. Abdel-Jawad and G.S. Aly 74(1989)125-140

Computerized instrumentation and control for reverse osmosis systems
E. Fredkin and R. Banks 75(1989)141-148

Pre-treatment and desalination of mine drainage water in a pilot plant
J. Sikora, C-H. Hansson and B. Ericsson 75(1989)363-378

Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia
J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli 75(1989)379-393

Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant
K. Hamby and James Chen 76(1989)3-14

Technical and economical comparison between large capacity MSF and RO desalting plants
M.A. Darwish, M. Abdel-Jawad and G.S. Aly 76(1989)281-304

Design, operation and maintenance problems of small reverse osmosis treatment plants in Riyadh region, Saudi Arabia
A.J. Al-Saati and M.M.A. Khan 82(1991)141

Evaluation of energy recovery in reverse osmosis desalination plants
I.S. Al-Mutaz 82(1991)142

Membrane filtration as a pre-treatment method
B. Ericsson and B. Hallmans 82(1991)249-266

Economic material selection for reverse osmosis desalination plants
J.W. Oldfield and R.M. Kain 84(1991)227-250

Nine years of reverse osmosis operation at Englewood
H.W. Harlow, M. Ray and R. Quick 87(1992)193-228

Membrane material for brackish water application for utilities — An evalution
L. Raghuraman 91(1993)155-162

Practical observations on reverse osmosis plants including raw water contamination problems, different intake stations and permeator performance
F.S. Al-Kebti, E.Z. Isnasious and A.M. Al-Mahyas 93(1993)259-272

Groundwater treatment in the Central Region of Saudi Arabia
A.I. Abdula'aly and A.A. Chammem 96(1994)203-214

Role of evaporative and membrane desalination technology in solving drinking water problems in India
H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra 96(1994)249-258

Operating report of the largest reverse osmosis desalting plant
E.M. Lohman 96(1994)349-358

Design and operation of a 5 ml/d RO desalination plant in arid Australia
B. Watson, G. Marks, E. Gabbrielli and L. Chapple 96(1994)369-377

Factors affecting the design of a pre-treatment system for a 1,200 m^3/d RO plant in Riyadh, Saudia Arabia with an iron-rich, 60°C feed water
K.J. McGlone, E.G. Darton, D.J. Langdown and A. Rahman 96(1994)397-408

RAJJ RO plant operational costs optimization
M. Al-Arrayedh, K. Burashid and K. Almansoor 97(1994)235-251

Indian River Plantation: The evolution, 16-year history and operating experience of the oldest reverse osmosis water treatment plant on Hutchinson Island (FL)
W.K. Hendershaw, J.D. Lyle and C.G. Harris, III 102(1995)225-234

Desalting in Cape Coral, FL — An operating update
S. Kopko, M. Seamans, J.E. Nemeth and I.C. Watson 102(1995)245-253

Environmental aspects of corrosion in MSF and RO desalination plants
J.W. Oldfield and B. Todd 108(1996)27-36

Reverse osmosis plants operation and maintenance experience in the Middle Eastern region
K. Chida 110(1997)59-64

Experiences with the pretreatment of raw water with high fouling potential for reverse osmosis plant using FILMTEC membranes
J.A. Redondo and I. Lomax 110(1997)167-182

Reverse osmosis, Post-treatment

Pre- and post-treatment at the RO plant at Ra's Abu Jarjur, Bahrain
M. Al-Arrayedhy 63(1987)81-94

Evaluation of the three post-treatment systems at Doha seawater reverse osmosis plant — Kuwait
F. Al-Awadi and M. Abdel-Jawad 63(1987)109-117

Evaluation of the three post-treatment systems at Doha seawater reverse osmosis plant — Kuwait
F. Al-Awadi and M. Abdel-Jawad 63(1987)109-117

High recovery reverse osmosis
B.M. Watson 78(1990)91-97

Reverse osmosis pretreatment

The effect of precipitating media on the performance of porous cellulose acetate reverse osmosis membranes
J.W. Carter, G. Psaras and M.T. Price 12(1973)177-188

Preconcentration by reverse osmosis before evaporation: possibilities in Sweden
P. Eriksson 35(1980)423-429

Pre- and post-treatment at the RO plant at Ra's Abu Jarjur, Bahrain
M. Al-Arrayedhy 63(1987)81-94

RO pre-treatment — Injecting a little chemical control and management
N.R.G. Walton 82(1991)281-301

Microfiltration system as a pretreatment for RO units: Technical and economic assessment
S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney 109(1997)165-175

Pretreatment of the municipal wastewater feed for reverse osmosis plants
M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari 109(1997)211-223

Reverse osmosis process

Calcium sulfate solubility in brackish water concentrates and applications to reverse osmosis processes: Polyphosphate additives
L.B. Yeatts, P.M. Lantz and W.L. Marshall 15(1974)177-192

Relationship between desalination processes and electric energy generation
L. Gasparini 40(1982)395-400

A lumped transport parameter approach in predicting B10 RO permeator performance
A. Malek, M.N.A. Hawlader and J.C. Ho 99(1994)19-38

Reverse osmosis, process design

Design of reverse osmosis process
H. Ohya, K. Yajima and R. Miyashita 63(1987)119-133

Design method of reverse osmosis units used in desalination
M.S. Hameed 75(1989)85-96

Reverse osmosis, recent developments

Recent developments on the reverse osmosis process for desalination
W.S. Gillam and H.E. Podall 9(1971)201-211

Reverse osmosis seawater , see Seawater reverse osmosis

Reverse osmosis, see Pretreatment, feedwater

Reverse osmosis separation

Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures
T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura 81(1991)219-227

Mass transfer limitations in a membrane module
N. Datta and B.K. Guha 89(1993)343-358

Reverse osmosis, solar, see Solar, reverse osmosis

Reverse osmosis system

Optimization of a reverse osmosis system using nonlinear programming
G.B. Hatfield and G.W. Graves 7(1970)147-177

The Hydraulic TurboCharger™ for interstage feed pressure boosting. Impact on membrane performance, permeate quality, and feed pump energy consumption
E. Oklejas, Jr. 88(1992)289-300

Reverse osmosis systems

Design of reverse osmosis systems for commercial seawater desalination
D.C. Bullock 19(1976)397-404

An integrated pretreatment system for high recovery reverse osmosis systems
D.R. Anderson and W.R. Mills 22(1977)349-357

Reverse osmosis pre-treatment techniques in Saudi Arabia
R.R. Doelle 30(1979)317

Sea water desalination by reverse osmosis in Chigasaki Laboratory
Y. Kunisada, H. Kaneda, M. Hirai and Y. Murayama 30(1979)337-345

Reverse running centrifugal pumps as hydraulic power recovery turbines for seawater reverse osmosis systems
W. A. Raja and R. W. Piazza 38(1981)123-134

Improved pumping economics for seawater RO systems
D. C. Hallock 44(1983)99-100

Prediction of silica scale formation in RO systems
D.E. George 47(1983)161-169

DELBUOY: Ocean wave-powered seawater reverse osmosis desalination system
D.C. Hicks, G.R. Mitcheson, C.M. Pleass and J.F. Salevan 73(1989)81-94

Improving reverse osmosis performance through periodic cleaning
S.I. Graham, R.L. Reitz and C.E. Hickman 74(1989)113-124

A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems
M.A. Darwish, M. Abdel-Jawad and L.J. Hauge 75(1989)25-39

Predictability of membrane performance of reverse osmosis systems for seawater desalination
B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad 75(1989)55-69

The hydraulic turbocharger™: A new type of device for the reduction of feed pump energy consumption in reverse osmosis systems
J. Lozier, E. Oklejas and M. Silbernagel 75(1989)71-83

Cost estimates of large RO systems
P. Glueckstern 81(1991)49-56

Design and analysis of reverse osmosis systems using three parameter models for transport across the membrane
S.K. Gupta 85(1992)283-296

Design and parameter estimation of reverse osmosis systems
S.K. Gupta, S. Gupta and A. Narayana 86(1992)77-89

Case study: Martin County, Florida. "A utility's experience developing a new reverse osmosis treatment system"
G.A. Miller and R.S. Pontek 87(1992)249-265

A way to solve trouble encountered in one RO system
X.H. Zhang 96(1994)459-464

What every reverse osmosis water system manager should know
D.L. Kronmiller 98(1994)401-411

Reverse osmosis technology

Applications of reverse osmosis to complex industrial wastewater treatment
C.S. Slater, R.C. Ahlert and C.G. Uchrin 48(1983)171-187

Current and long term considerations for the application of reverse osmosis technology in Israel
P. Glueckstern 58(1986)69-75

US Army reverse osmosis membrane research programs
E.A. Downing, A.J. Coleman and T.H. Bagwell, Jr. 99(1994)383-399

Reverse osmosis treatment

Reverse osmosis treatment of process water streams
A. Saavedra, G. Bertoni, D. Fajner and G.C. Sarti 82(1991)267-280

Reverse osmosis, Tubular

Desalination and reuse of power plant effluents: From pilot plant to full scale application
C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom 67(1987)255-269

Reverse osmosis, Two-stage

Application of system analysis in two-stage reverse osmosis process design for water desalination
H. Ohya, S. Kasahara and S. Sourirajan 16(1975)375-393

Verification of design criteria, experience and results obtained with the plate module line at DROP, Kuwait
W. Nieszen 63(1987)247-262

Reverse osmosis units

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
S.R. Baggott and A. Jaffer 83(1991)119

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
A.E. Jaffer 96(1994)71-79

Reverse osmosis, waste heat powered

Vertical tube foam evaporation for fresh water production using power plant waste-heat
H.H. Sephton 31(1979)187-195

MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry
R. Rautenbach, P. Monheim and D. Zebrowski 31(1979)197-206

Application of low-temperature waste heat distillation in nuclear plants *(in French)*
P. Combaz, J.C. Deronzier and F. Lauro 31(1979)207-218

Reverse osmosis/fractionation membranes

RO-fractionation membranes
D. Pepper 70(1988)89-93

Rheological screening method

A rheological screening method for membrane modifying polymers
B. Sivik, M. Wahlgren and Y. Miezis 77(1990)181-193

Rhodochrosite

Contact stabilization of potential calcium carbonate scale by rhodochrosite
K.S. Johnson 48(1983)17-23

River water treatment

The use of reverse osmosis for the treatment of Rhine river water. Part I
D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw 14(1974)163-172

The use of reverse osmosis for the treatment of river Rhine water. Part II
D. Kuiper, J.L. Van Hezel and C.A. Bom 15(1974)193-212

Desalination of Rhine River water by ion exchange. Part 1. Pilot plant studies of lime slurry regeneration
S. Evans and R.M. Gomes 19(1976)433-438

ROGA-modules

An analysis of reverse osmosis characteristics of ROGA spiral-wound modules
Y. Taniguchi 25(1978)71-88

Roped tubes

The effect of air on condensation on a roped tube
J. Cunningham and A. Holmes 38(1981)65-74

Rotary disk module

Waste water recycling technology using a rotary disk module
N. Ohkuma, M. Ohnishi and Y. Okuno 98(1994)49-58

Ruthenium-coated titanium electrodes

Electrode for electrodialysis
Jingxu Qu and Shumin Liu 46(1983)233-242

Saccharification

Evaluation of UF and RO in a cellulose saccharification process
I. Ohlson, G. Trägårdh and B. Hahn-Hägerdal 51(1984)93-101

Saline waste water

Desalination and utilization of saline mine waters in Poland
J. Kepinski 32(1980)399-408

Treatment of saline wastewater for zero discharge at the Debiensko coal mines in Poland
B. Ericsson and B. Hallmans 105(1996)115-123

Selection of the best desalination technology for highly saline drainage water from coal mines in southern Poland
J. Kurbiel, W. Balcerzak, S.M. Rybicki and K. Swist 106(1996)415-418

Saline water

Saline water conversion by carrier gas distillation
H. Lentz 7(1970)245-248

Rapid batch and continuous electroanalysis for the chloride ion
R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey 9(1971)333-350

Scale reduction in saline water conversion
E.I. Shaheen and S.N.S. Dixit 13(1973)187-206

An advanced seeding process in saline water conversion
K.R. Fröhner and H. Panahandeh 16(1975)261-269

Experimental methods for the determination of the properties of saline water
D.T. Jamieson 59(1986)219-240

Formulas for calculating the approach to equilibrium in open channel flash evaporators for saline water
N. Lior 60(1986)223-249

Electrostatically enhanced evaporation rates of saline water
N.N. Barthakur 74(1989)339-353

Photochemically assisted solar desalination of saline water
M.A. Al-Abbasi, A.A. Al-Karaghouli and A.N. Minasian 86(1992)317-324

Developments in saline water distillation technology
B. Tleimat and M. Tleimat 93(1993)15-42

Water production from brines by membrane distillation
M.P. Godino, L. Peña, C. Rincón and J.I. Mengual 108(1996)91-97

Salinity gradient

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
M. Bouscher, P. Pnueli and Y. Zvirin 49(1984)17-36

Salinity power utilization

Recent developments in the utilization of salinity power
C. Forgacs 40(1982)191-195

Salt concentration

Technological account of electrodialysis apparatus for concentration
V.N. Smagin, V.A. Chukhin and V.A. Kharchuck 46(1983)283-290

Relation between transport number and concentration of Donnan salt in membranes
A. Yamauchi, Y. Hirata and M. Shinoda 80(1991)61-70

Salt concentration, brine

Calculation of the expected performance of reverse osmosis plants
C.W. Saltonstall, Jr. and R.W. Lawrence 42(1982)247-253

Salt conversion, into acid and base

Aquatech membrane technology for recovery of acid/base values from salt streams
K.N. Mani, F.P. Chlanda and C.H. Byszewski 68(1988)149-166

Salt depletion layer

Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane
S. Reich, B. Gavish and S. Lifson 24(1978)295-296

Salt enrichment

Desalination by pressure osmosis
U. Merten 1(1966)297-310

An engineering analysis of piezodialysis
F.B. Leitz and W.A. McRae 10(1972)293-307

Salt entrainment

Salt entrainment in ice crystallized from brine
E.F. Janzow and B.T. Chao 12(1973)141-161

Salt exclusion

Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion
G. Belfort and J. Scherfig 18(1976)43-58

Salt flux measurement

Simultaneous automatic measurement of salt and water fluxes through a charged membrane
C. Ripoll, M. Labbe, L. Lavielle and E. Selegny 41(1982)289-298

Salt production

Present status of electrodialysis in Japan
T. Yamabe 23(1977)195-202

Salt recovery

Utilization of the waste concentrated seawater in the desalination plants
T. Kawahara and K. Suzuki 38(1981)499-507

By-product recovery from Saudi desalination plants
I. S. Al-Mutaz 64(1987)97-110

Analysis of a new combined desalination-power generation plant
A.A. Madani 105(1996)199-205

Salt rejection

Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method
R.J. Raridon, L. Dresner and K.A. Kraus 1(1966)210-224

Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (1)
K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor 1(1966)225-230

Transport coefficients and salt rejection in uncharged hyperfiltration membranes
J. Jagur-Grodzinski and O. Kedem 1(1966)327-341

Hyperfiltration in charged membranes: the fixed charge model
E. Hoffer and O. Kedem 2(1967)25-39

Negative rejection of acids and separation of ions by hyperfiltration
E. Hoffer and O. Kedem 5(1968)167-172

Selective properties of cellulose acetate membranes towards ions in aqueous solutions
T.D. Hodgson 8(1970)99-138

Hyperfiltration in porous fixed charge membranes
R. Simons and O. Kedem 13(1973)1-16

Effect of imperfect salt rejection on concentration polarization in reverse osmosis systems
S. Srinivasan and C. Tien 13(1973)287-301

Brackish water salt rejection by porous hyperfiltration membranes
R.F. Probstein, A.A. Sonin and D. Yung 13(1973)303-316

Relation between salt rejection rho and reflection coefficient sigma of asymmetric cellulose acetate membranes
W. Pusch and R. Riley 14(1974)389-393

Ion exclusion from neutral and slightly charged pores
L. Dresner 15(1974)39-57

Reverse osmosis rejection on heavy metal cations
H.K. Johnston 16(1975)205-224

The permselective coefficient of inorganic ions on reverse osmosis membrane
M. Igawa, S. Yoshida, T. Yamabe and N. Takai 17(1975)257-265

On the salt rejection of non-ionic polymeric membranes
P. Bo and V. Stannett 18(1976)113-135

Parameters influencing the characterization of C.A. membrane and a new rejection mechanism
R. Flores, A. Flores and L.F. del Castillo 19(1976)221-228

Note on the paper "Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method"
P.S. Ravishankar 21(1977)341-342, Err. 1(1966)210

Movements of univalent ions in cellulose acetate membranes
N. Kinjo and M. Sato 27(1978)71-80

Salt rejection and flux in reverse osmosis with compactible membranes
W.C.M. Henkens and J.A.M. Smit 28(1979)65-85

The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes
G. Jonsson 34(1980)141-157

Reverse osmosis with a cellulose acetate membrane in the reverse orientation
J.A.M. Smit 36(1981)291-297

Reverse osmosis separation of inorganic salts using polyvinylalcohol membranes
Ho Nam Chang 42(1982)63-77

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder 71(1989)233-245

Yuma Desalting Plant. Membrane degradation during test operations
A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody 88(1992)33-49

Controlling loss of salt rejection and water flux at the Yuma Desalting Plant
A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody 96(1994)421-429

Performance of an aromatic polyamide hollow fiber membrane subjected to high salinity water
W.Z. Khan and E.Z. Hamad 105(1996)191-197

Salt removal

Desalination by pressure osmosis
U. Merten 1(1966)297-310

Salt resources

Concentration and demineralization of sea water by the hydrate process
J. Sugi and S. Saito 3(1967)27-31

Salt retention

The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I.
M.J. Hurndall, E.P. Jacobs and R.D. Sanderson 86(1992)135-154

Salt solutions

Crystallization of ice from salt solutions *(in German)*
W. Schneider and K. Fischbeck 5(1968)217-230

Solid-liquid equilibria in concentrated aqueous salt solutions — Systems with a common ion
R. Vega and E.W. Funk 15(1974)225-241

Osmotic concentration of salt solutions in a countercurrent multiplier system
N. Chlubek 27(1978)137-141

Optimization of electrodialysis process at elevated temperatures
V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov 46(1983)253-262

A new model for predicting thermodynamic properties of sea salt solutions
V. Brandani, G. del Re and G. di Giacomo 56(1985)299-313

Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature
D. Barba, V. Brandani, G. Del Re and G. Di Giacomo 65(1987)101-112

Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids
R. Oláh and K. Vadasdi 67(1987)547-557

Removal of chlorine from dilute salt aqueous solution with a flat microporous membrane
B. Yu and Q. Li 90(1993)335-344

Salt tolerance

Significance of potassium and chloride membrane currents in mechanisms of salt tolerance in *Chara corallina* and *Chara inflata*
J.I. Kourie 106(1996)431-434

Salt transport

Salt transport in composite reverse osmosis membranes
L. Dresner 15(1974)371-374

Salt-contaminated soil treatment

Remediation of groundwater contaminated by olive processing waste
C.J. Martin 88(1992)253-263

Salts, Ferric

Pretreatment of reverse osmosis feedwater by means of in line coagulation
J. C. Schippers, J. Verdouw and J. M. Hofman 32(1980)103-112

Salts, Metal

Deterioration of cellulose acetate by transition metal salts in aqueous chlorine
A.P. Murphy 85(1991)45-52

Sample preparation techniques

Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy
H.K. Plummer, Jr., C.D. Melvin and E. Eichen 15(1974)93-108

Sand entrainment

Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand
N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio 38(1981)223-231

Sand filtration, continuous

Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant
S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
66(1987)339-351

SAR systems

The capability of SAR systems for iceberg detection and characterization
R. Rawson, R. Larson, R. Shuchman and R. Worsfold 29(1979)109-133

Saudi Arabia

Desalination by the saline water conversion corporation of Saudi Arabia
A.M. Al-Golaikah 50(1984)83-86

SCADA systems

Description and mathematical model of a large MSF desalination plant in SCADA configuration
D. M. Khamis Fareigh and S. Arazzini
55(1985)91-106

Scale

Mineralogy of scales in the brine heater tubes
Y.I.El-Akeel and H.I. Amer
23(1977)255-262

Brine and scale chemistry in MSF distillers
A.M. Shams El Din and R.A. Mohammed 99(1994)73-111

Scale, Alkaline

Some aspects of laboratory studies on alkaline scales
P.L. Kapur and B.M. Misra
27(1978)65-70

Factors affecting the brine scaling potential in MSF plants
K. G. Cooper, L. G. Hanlon, G. M. Smart and R. E. Talbot
38(1981)175-184

On the thermal stability of the HCO_3^- and the CO_3^{2-} ions in aqueous solutions
A.M. Shams El Din and R.A. Mohammed 69(1988)241-250

The problem of alkaline scale formation from a study on Arabian Gulf water
A.M. Shams El Din and R.A. Mohammed 71(1989)313-324

Alkaline scale formation restriction in desalination plants by means of antiscalant additives
O.I. Martynova, L.G. Vasina, A.V. Boglovsky and O.V. Gyseva
83(1991)55-63

Scale, Calcium carbonate

Contact stabilization of potential calcium carbonate scale by rhodochrosite
K.S. Johnson 48(1983)17-23

Effect of some amino acids on the rate of dissolution of calcite crystals in aqueous systems
S.K. Hamdona, S.M. Hamza and A.H. Mangood 101(1995)263-267

Influence of the flow system on the inhibitory action of $CaCO_3$ scale prevention additives
D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat
108(1996)67-79

Scale, Calcium sulfate

Chemical removal of calcium sulfate scale — Plant experience of Lok On Pai desalter
Ying Kwong Chan and Kwok Kuen Leung 30(1979)359-371

Toxicological aspects of scale preventative agents used in desalination equipment for drinking water
R.A. Leimgruber 30(1979)401

Scale inhibition of calcium sulfate by a fluidized bed
J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel
34(1980)217-232

Calcium sulphate scale removal during operation in horizontal tube film evaporators
J. Moisse 38(1981)169-174

$CaSO_4$ scale conditions of membranes predicted by a multi-ion thermodynamic model
D. Barba, V. Brandani and G. di Giacomo 54(1985)227-237

The influence of various polyelectrolytes on the precipitation of gypsum
M.P.C. Weijnen and G.M. van Rosmalen 54(1985)239-261

Applications of antiscalants to control calcium sulfate scaling in reverse osmosis systems
Z. Amjad 54(1985)263-276

Control of gypsum scale on reverse osmosis membranes
D.P. Logan and S. Kimura
54(1985)321-331

The roles of gas bubbling, wall crystallization and particulate deposition in $CaSO_4$ scale formation
D. Bramson, D. Hasson and R. Semiat
100(1995)105-113

Scale control

Scale control in the high temperature distillation of saline waters by means of fluidized-bed heat exchangers
L.P. Hatch, G.G. Weth and S.J. Wachtel 1(1966)156-164

Increased solubility of calcium sulphate in sea water containing hydrochloric acid
O. Flint 4(1968)328-335

The present state of scale control in sea water evaporators
M.N. Elliot 6(1969)87-104

Scales from phosphate treated sea water
O. Flint 6(1969)319-334

Scale control by polyacrylates: The effects of molecular weight and of traces of metals
F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor 8(1970)167-175

The use of polyelectrolytes for scale control in sea water evaporators
D.R. Sexsmith and E.Q. Petrey
13(1973)89-92

Additives for alkaline scale control at temperatures above 93°C (200°F)
M.N. Elliot, T.D. Hodgson and A. Harris 14(1974)43-55

Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation
J. Glater, K.S. Murdia and R. Dooly
14(1974)197-207

Dissociation constants of certain scale forming salts
O.I. Martynova, L.G. Vasina and S.A. Pozdniakova 15(1974)259-265

Effect of iron and copper during scale suppression by threshold compounds
J. Block, B.M. Watson, L.A. Burkholder and B. Albano 15(1974)279-286

Chemical additives for calcium sulfate scale control
A.E. Austin, J.F. Miller, D.A. Vaughan and J.F. Kircher 16(1975)345-357

Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure

S. Sarig, F. Kahana and R. Leshem 17(1975)215-229

The economics of the seed slurry process for scale control
O. Pfefferkorn 19(1976)75-82

On line tube cleaning systems for polyphosphate plants
S.V. Cabibbo and J.T. Callahan 23(1977)311-319

The MSF desalination process: A comparison of acid and polyphosphate treatment plants
K. Hill 25(1978)111-122

Electrolytic deposition for scale control in sea water distillation
M.K.V. Nair and B.M. Misra 27(1978)59-64

The use of acid and additive. Practical experiences in a multistage flash plant
J. Stewart, R. Bom and M.A. Finan 31(1979)299-307

A review of scale control methods
N. M. Wade 31(1979)309-320

Operating experience of a large multistage flash evaporator in Sultanate of Oman
S. Chalchal 31(1979)333-340

Utilization of organo phosphonate chemicals in reverse osmosis scale growth
R.R. Doelle and J.R. Smith 32(1980)113-

Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait
F.H. Butt and A.H. Bou-Hassan 36(1981)129-136

Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
G.F. Casini, I.S. Di Simone and M. Minervini 39(1981)339-350

Operating experience of MSF units in Saudi Arabia
N. Nada 41(1982)57-69, Err. 41(1982)337

The operation of sea water distillation plants in relation to materials selection
R. Heaton and T. A. Douglas 41(1982)71-80

Short-term low as well as high temperature operation of an MSF plant using Belgard EVN as a scale control additive
F. H. Butt and A. H. Bou-Hassan 42(1982)79-86

The crystallization of magnesium hydroxide, a constant composition study
C.-C. Chieng and G.H. Nancollas 42(1982)209-219

An assessment of different scale control methods
R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt 47(1983)49-62

A quantification of the effectiveness of an inhibitor on the growth process of a scalant
M. P. C. Weijnen, W. G. J. Marchée and G. M. van Rosmalen 47(1983)81-92

Elimination of mineral acid dosing to control water formed scale in brackish water RO systems
A.L. Smith, D.P. Logan, H.E. Nehus and M.L. Delitsky 54(1985)277-289

Scale control additive — Practical experiences in multistage flash plants
J.C. Bernard and E. Demolins 54(1985)301-305

Field trials of hybrid acid-additive treatment for control of scale in MSF plants
F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin 54(1985)307-320

Measurements and control related to corrosion and scale in water desalination installations
C.F. Schrieber 59(1986)425-444

Additive scale control optimization and operation modes
M. A. Al-Sofi, M. A. Al-Hussain and S. G. Al-Zahrani 66(1987)11-32

Field experiences on large MSF desalination plants designed to operate with two different top brine temperatures
A. Massarani 66(1987)43-57

Practical experience in scale control
M.A.K. Al-Sofi, S. Khalaf and A. Al-Omran 73(1989)313-325

BELGARD®EV - 15 years' experience in scale control
M.A. Finan, S. Smith, C.K. Evans and J.W.H. Muir 73(1989)341-357

On the concentration of RO-brines by seeded horizontal tube falling film evaporation (HTFE)
R. Rautenbach and J. Gebel 76(1989)107-119

Scale control additives

Scales from phosphate treated sea water
O. Flint 6(1969)319-334

Scale control by threshold treatment
M.N. Elliot 8(1970)221-236

Scale reduction in saline water conversion
E.I. Shaheen and S.N.S. Dixit 13(1973)187 -206

Calcium sulfate solubility in brackish water concentrates and applications to reverse osmosis processes: Polyphosphate additives
L.B. Yeatts, P.M. Lantz and W.L. Marshall 15(1974)177-192

The application of a high temperature scale control additive to a European MSF plant
G. Spanhaak, M.A. Finan and A. Harris 23(1977)455-464

A review of scale control methods
N. M. Wade 31(1979)309-320

Utilization of organo phosphonate chemicals in reverse osmosis scale growth
R.R. Doelle and J.R. Smith 32(1980)113-

Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait
F.H. Butt and A.H. Bou-Hassan
36(1981)129-136

Structure/performance relationships of high-temperature MSF scale control additives
S.W. Walinsky, B. J. Morton and J.J. O'Neill 38(1981)203

The application of a high temperature scale control additive in a Middle East MSF plant
G. F. Casini 47(1983)19-24

A model for the fouling of MSF plants based on data from operating units
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 47(1983)37-47

A model for the fouling of MSF plants based on data from operating units
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 47(1983)37-47

Evaluation of thermal desalination plants water chemistry
O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
47(1983)63-69

A 600-day experiment with polyphosphate as anti-scale agent in MSF distillers
A.M. Shams El Din 61(1987)89-101

Evaluation of Belgard EV 2000 as antiscalant control additive in MSF plants
S.A. Al-Saleh and A.R. Khan
97(1994)87-96

Scale control, High-temperature

The field assessment of a high temperature scale control additive and its effect on plant corrosion
M.A. Finan, A. Harris and S. Smith
20(1977)193-201

Structure/performance relationships of high-temperature MSF scale control additives
S.W. Walinsky, B. J. Morton and J.J. O'Neill 38(1981)203

The application of a high temperature scale control additive in a Middle East MSF plant
G. F. Casini 47(1983)19-24

Scale control inhibitor performance at 100°C under boiling conditions
R.W. Goeldner 47(1983)25-35

Scale deposition

Calcium sulphate scale deposition in sea water evaporators
H.C. Simpson and M. Hutchinson
2(1967)308-324

Calcium carbonate scale deposition on heat transfer surfaces
D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
5(1968)107-119

Precipitation of calcium sulfate from sea water at high temperatures
A. E. Austin, J. F. Miller, N. A. Richard and J. F. Kircher
16(1975)331-334

Scale deposition from an evaporating falling film
E. Gazit and D. Hasson
17(1975)339-351

Mineralogy of scales in the brine heater tubes
Y.I.El-Akeel and H.I. Amer
23(1977)255-262

Deposition of silica from geothermal waters on heat transfer surfaces
J.S. Gudmundsson and T.R. Bott
28(1979)125-145

Removal of accumulated deposits by chemical treatments in multistage flash distillation units
A. Brandel and J. Riebe
31(1979)341-350

Scale deposition in a laminar falling-film system
D. Hasson and I. Perl
37(1981)279-292

Precipitation equilibrium during evaporation of water containing high dissolved salts
J. S. Gill and R. G. Varsanik
60(1986)1-8

The roles of gas bubbling, wall crystallization and particulate deposition in $CaSO_4$ scale formation
D. Bramson, D. Hasson and R. Semiat
100(1995)105-113

Identification of scale deposits through membrane autopsy
F.H. Butt, F. Rahman and U. Baduruthamal 101(1995)219-230

Influence of the flow system on the inhibitory action of $CaCO_3$ scale prevention additives
D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat
108(1996)67-79

Scale formation

Prevention of scale formation in distillation desalination plants by means of seeding
V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novilov and V.I. Tkach 1(1966)50-60

Polymers that inhibit the deposition of calcium sulphate
D.H. Solomon and P.F. Rolfe
1(1966)260-266

Scale formation in sea water distillation plants
O. Flint and M.N. Elliot 5(1968)5-16

Scale control by polyacrylates: The effects of molecular weight and of traces of metals
F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor 8(1970)167-175

Alkaline scale formation in boiling sea water brines
R. Dooly and J. Glater 11(1972)1-16

The formation and properties of Al/Mg scales on Al heat-exchange surfaces in desalination plant
C.E. Austing, A.M. Pritchard and N.J.M. Wilkins 12(1973)251-272

Scale formation as related to evaporator surface conditions
R.H. Rankin and W.L. Adamson
13(1973)63-87, Err. 13(1973)63

Calcium sulphate scaling in falling film evaporators
T.D. Hodgson, M.N. Elliot and T.W.J. Jordan 14(1974)77-91

Dissociation constants of certain scale forming salts
O.I. Martynova, L.G. Vasina and S.A. Pozdniakova 15(1974)259-265

An advanced seeding process in saline water conversion
K.R. Fröhner and H. Panahandeh
16(1975)261-269

Formation of alkaline scale in heating brine obtained by the ion-exchange membrane method
S. Sugita 17(1975)231-237

Electrolytic scale formation in sea water distillation systems
M.K.V. Nair and B.M. Misra
25(1978)263-268

Analysis of the effect of brine retention time on the scaling potential
S. Steinberg and D. Hasson
31(1979)267-277

Factors affecting the brine scaling potential in MSF plants
K. G. Cooper, L. G. Hanlon, G. M. Smart and R. E. Talbot
38(1981)175-184

Electrochemical studies on sea water applied to desalination
M.K.V. Nair, B.M. Misra and D.G. Vartak 42(1982)199-207

An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV
J. Reverter, M. Ribeaud and M.P. Savage 47(1983)17

Scale formation and its effect on the performance of once through MSF plant
H.T. El-Dessouky and T.A. Khalifa
55(1985)199-217

Inhibition efficiency of scale formation by chemical additives
O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin 74(1989)355-361

Calcium carbonate scale formation and prevention in a flow-through system at various temperatures
E. Dalas and P.G. Koutsoukos
78(1990)403-416

Scale formation prognosis and cleaning procedure schedules in reverse osmosis systems operation
A.G. Pervov 83(1991)77-118

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
S.R. Baggott and A. Jaffer
83(1991)119

Studies on polarity reversal with continuous deionization
Y. Oren and Y. Egozy
86(1992)155-172

Scale formation and fouling problems effect on the performance of MSF and RO desalination plants in Saudi Arabia
M. Al-Ahmad and F.A. Aleem
93(1993)287-310

Scale formation and fouling problems and their predicted reflection on the performance of desalination plants in Saudi Arabia
M. Al-Ahmad and F.A. Aleem
96(1994)409-419

Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold
L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev
105(1996)159-163

Scale formation inhibitors

The threshold scale inhibition phenomenon
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
31(1979)257-266

Inhibition efficiency of scale formation by chemical additives
O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin 74(1989)355-361

Inhibition of scale formation from natural salt waters. Inhibitor effect on chemical composition of the forming scale
O.D. Linnikov, V.L. Podbereznyi and I.V. Rodina 82(1991)359-363

Scale identification

Neutron-capture gamma-ray technique for scale identification inside pipes
S. Abdul-Majid and U. Dawood
75(1989)199-210

Scale inhibition

The threshold scale inhibition phenomenon
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
31(1979)257-266

Chemistry of alkaline scale inhibition in seawater desalination by FLOCON Antiscalant 247
S. W. Walinsky and B. J. Morton
31(1979)289-298

Scale inhibition of calcium sulfate by a fluidized bed
J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel
34(1980)217-232

The influence of various polyelectrolytes on the precipitation of gypsum
M.P.C. Weijnen and G.M. van Rosmalen 54(1985)239-261

Applications of antiscalants to control calcium sulfate scaling in reverse osmosis systems
Z. Amjad 54(1985)263-276

A 600-day experiment with polyphosphate as anti-scale agent in MSF distillers
A.M. Shams El Din 61(1987)89-101

Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature
R. Zannoni, I. Resini and R. Lucenti
66(1987)109-118

Improved antiscaling treatment for desalination plants
P. Zini, R. Zannoni and R. Lucenti
66(1987)285-298

A 700-day experiment with Belgard EV-2000 as anti-scale agent in MSF distillers
A. M. Shams El Din 69(1988)147-160

Practical experience in scale control
M.A.K. Al-Sofi, S. Khalaf and A. Al-Omran 73(1989)313-325

Graphic evolution of the 24,000 hours (3 years) operating data of a RO brackish water desalination plant, in Las Palmas, Canary Islands, Spain
E.R. Saavedra 76(1989)15-26

Alkaline scale formation restriction in desalination plants by means of antiscalant additives
O.I. Martynova, L.G. Vasina, A.V. Boglovsky and O.V. Gyseva
83(1991)55-63

The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai
Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas 83(1991)65-75

Using different types of anti-scalants at the Al-Jubail Power and Desalination Plant in Saudi Arabia
S. Al-Zahrani, A.M. Al-Ajlan and A.M. Al-Jardan 97(1994)17-28

Comparative study of two anti-scale agents Belgard EVN and Belgard EV 2000 in multi-stage flash distillation plants in Kuwait
S.A. Al-Saleh and A.R. Khan 97(1994)97-107

Improved chelators and sequestrants for Army Reverse Osmosis Water Purification Units (ROWPUs)
C.A. Luu 97(1994)165-170

Laboratory studies on magnetic water treatment and their relationship to a possible mechanism for scale reduction
K.W. Busch and M.A. Busch 109(1997)131-148

Evaluation of SHMP and advanced scale inhibitors for control of $CaSO_4$, $SrSO_4$, and $CaCO_3$ scales in RO desalination
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)323-332

Scale inhibitor

Prevention of sulfate scale formation in desalination of the Aral Sea water
O.D. Linnikov and V.L. Podbereznyi 105(1996)143-150

Scale inhibitors

25 years experience in the development and application of scale inhibitors
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 31(1979)243-255

Laboratory applications testing of desalination antiscalants
M. H. Auerbach and M. S. Carruthers 31(1979)279-288

Chemistry of alkaline scale inhibition in seawater desalination by FLOCON Antiscalant 247
S. W. Walinsky and B. J. Morton 31(1979)289-298

Morphology of inhibitor-treated $CaCO_3$ precipitate
G. Wilken 33(1980)201-210

Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait
F.H. Butt and A.H. Bou-Hassan 36(1981)129-136

Structure/performance relationships of high-temperature MSF scale control additives
S.W. Walinsky, B. J. Morton and J.J. O'Neill 38(1981)203

Letter to the Editor
D. G. Addenbrook 41(1982)337-337

An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV
J. Reverter, M. Ribeaud and M.P. Savage 47(1983)17

Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination
F.H. Butt, F. Rahman and U. Baduruthamal 103(1995)189-198

Influence of the flow system on the inhibitory action of $CaCO_3$ scale prevention additives
D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat 108(1996)67-79

Scale, Magnesium

A theory of the formation of magnesium scales in sea water distillation plants, and means for their prevention
A. Harris, M.A. Finan and M.N. Elliot 14(1974)325-340

Magnesium scales from seawater distillation
J. Block and B.M. Watson 19(1976)359-368

Scale, Magnesium/Aluminium

The formation and properties of Al/Mg scales on Al heat-exchange surfaces in desalination plant
C.E. Austing, A.M. Pritchard and N.J.M. Wilkins 12(1973)251-272

Scale prevention

Prevention of scale formation in distillation desalination plants by means of seeding
V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novilov and V.I. Tkach 1(1966)50-60

Evaporation for desalination: scale prevention and removal
D.F. Othmer 1(1966)194-198

Polymers that inhibit the deposition of calcium sulphate
D.H. Solomon and P.F. Rolfe 1(1966)260-266

Polymers that inhibit the deposition of calcium sulphate: some interesting conductance observations
P.F. Rolfe 1(1966)359-366

Scale prevention via quench dilution
E.A.J. Mroz 3(1967)135-138

Sea water softening by osmosis through desalinating membranes
E. Glueckauf, L.A. McDonald and P.J. Russell 3(1967)155-168

Scale prevention by addition of polyelectrolytes
B.R. Smith 3(1967)263-268

Operating experiences with mobile distillation plants, with particular reference to the avoidance of calcium sulphate scale
H.M. Peacock 3(1967)280-294

Ion-exchange pretreatment for sea water desalination plants
G.K. Kunz 3(1967)363-372

Test of the desalting flash pilot plant with recirculating seed
V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo 5(1968)34-39

The determination of carbonate-bicarbonate ratios and total alkalinity in treated sea water
W.A. Stuart and A.R. Lister 8(1970)69-72

Scale control by polyacrylates: Relation to crystallization inhibition
B.R. Smith and F. Sweett 9(1971)277-283

Calcite crystal growth inhibition by phosphonates
M.M. Reddy and G.H. Nancollas 12(1973)61-73, Err. 13(1973)104

Scale reduction in saline water conversion
E.I. Shaheen and S.N.S. Dixit 13(1973)187-206

Influence of scale prevention on corrosion of heat-transfer tube
J. Sakuma, T. Takagi, S. Yamada and Y. Kibe 14(1974)189-196

A theory of the formation of magnesium scales in sea water distillation plants, and means for their prevention
A. Harris, M.A. Finan and M.N. Elliot 14(1974)325-340

Evaluation of the calcium diminution in the circulated brine of a BSS-MSF plant
K. R. Fröhner 16(1975)157-167

An advanced seeding process in saline water conversion
K.R. Fröhner and H. Panahandeh 16(1975)261-269

Formation of alkaline scale in heating brine obtained by the ion-exchange membrane method
S. Sugita 17(1975)231-237

Magnesium scales from seawater distillation
J. Block and B.M. Watson 19(1976)359-368

Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants
T. Sawa, K. Izumi and S. Takahashi 19(1976)369-380

The pH control in the large-scale MSF plants by using drop structure type decarbonator
T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome 22(1977)415-423

The electrodialysis reversal (EDR) process
W.E. Katz 28(1979)31-40

Comparison of corrosion and scaling behaviour of two acid-dosed MSF seawater distillation plants
F.C. Wood and Y.N. Wu 30(1979)347-358

Ecotoxicology of Belgard EV®
F. Korte 30(1979)411-424

Toxicological aspects of scale preventative agents used in desalination equipment for drinking water by desalination
R. Leimgruber 30(1979)615-620, Err. 30(1979)401

Operation of a horizontal tube brine concentrator
J. Weinberg and Y. Rotstein 40(1982)159-168

Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system
K. Eimer 40(1982)363-372

Prevention of calcium sulfate scale deposition by a fluidized bed
J.A.M. Meijer 47(1983)3-15

Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants
R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori 47(1983)93-102

Ion-exchange pretreatment for scale prevention in desalting systems
T. Vermeulen, B.W. Tleimat and G. Klein 47(1983)149-159

Electrodialytic removal of carbonates from seawater
H. U. Müller and H. Strathmann 47(1983)201-208

A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening
D. Barba, V. Brandani and P. U. Foscolo 48(1983)133-146

Measurements and control in flash evaporator plants
F.A. Drake 59(1986)241-262

Measurements and control in reverse osmosis desalination
A.B. Mindler and A.C. Epstein 59(1986)343-379

Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater by electrodialysis
S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan 69(1988)261-273

Prevention of the scale trouble of multi-effect stacked desalination plant
Y. Fujioka, M. Soda, M. Zama and I. Shimizu 73(1989)371-383

Some aspects of the development and operation of the desalination installations with horizontal-tube thin-film evaporators
V.I. Podbereznyi, J.K. Smirnov and J.V. Putilin 73(1989)447-455

Efficiency of two scale prevention methods for desalting Caspian seawater
O.D. Linnikov, V.L. Podbereznyi, E.A. Anokhina and O.V. Guseva 89(1993)311-323

Scale recovery, Membrane technologies

Membrane technique in simplification of soda recovery process in pulp and paper industry
S. Basu and V.S. Sapkal 67(1987)371-379

Scale removal

Evaporation for desalination: scale prevention and removal
D.F. Othmer 1(1966)194-198

Calcium sulphate scale removal during operation in horizontal tube film evaporators
J. Moisse 38(1981)169-174

Scale, Silica

Vinyl-substituted silica gel membranes *(in German)*
F. Runge 3(1967)304-307

Silica transport through charged membranes
G. Boari, C. Merli, R. Passino and G. Tiravanti 15(1974)3-10

Deposition of silica from geothermal waters on heat transfer surfaces
J.S. Gudmundsson and T.R. Bott 28(1979)125-145

Prediction of silica scale formation in RO systems
D.E. George 47(1983)161-169

Ultrafiltration of demineralized water containing colloidal silica
K. Konieczny and M. Bodzek 79(1990)145-161

Scale thickness

Determination of scale thickness and general and localized metal removal in desalination plants by the gamma-ray interaction method
S. Abdul-Majid 91(1993)35-49

Scaling

Calcium sulphate scale removal during operation in horizontal tube film evaporators
J. Moisse 38(1981)169-174

Analysis of RO flux decline due to membrane surface blockage
J. Borden, J. Gilron and D. Hasson 66(1987)257-269

Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar
G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig 66(1987)443-454

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units
A.E. Jaffer 96(1994)71-79

Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination
F.H. Butt, F. Rahman and U. Baduruthamal 103(1995)189-198

Survey of long time behavior and costs of industrial fluidized bed heat exchangers
R. Rautenbach and T. Katz 108(1996)335-344

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)67-82

Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 2: Membrane autopsy
F.H. Butt, F. Rahman and U. Baduruthamal 109(1997)83-94

Scaling, Gypsum

$CaSO_4$ scale conditions of membranes predicted by a multi-ion thermodynamic model
D. Barba, V. Brandani and G. di Giacomo 54(1985)227-237

Control of gypsum scale on reverse osmosis membranes
D.P. Logan and S. Kimura 54(1985)321-331

Scaling potential

Scaling potential of Kuwait seawater for reverse osmosis desalination
S.E. Ebrahim and B.A. Darwish 74(1989)141-156

Simple code for the estimation of scaling potential
M.A. Marwan, N.H. Aly and M.S. Saadawy 101(1995)279-286

Scanning electron microscopy

Scanning electron microscopy study on reverse osmosis membranes prepared from Indian cellulosic polymers
R.N. Kapadia and V.P. Pandya 34(1980)199-215

Morphological study of cellulose acetate benzoate membranes by scanning electron microscopy
M.D. Vyas and I.C. Mody 42(1982)107-114

Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes
Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie 62(1987)353-361

Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes
S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon 70(1988)265-275

Preparation and characterization of polysulfone ultrafiltration membranes for concentrating waste tuna broth
E. J. Del Rosario and F. D. Duldulao 70(1988)293-298

Scanning microscopy

The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope
G.J. Gittens, P.A. Hitchcock and G.E. Wakley 12(1973)315-332

Scavenging efficiency

A comparative study of common metals scavenging efficiency for aqueous sulfide or sulfite pollutants in salt solution
M.R. Reda and J.N. Alhajji 94(1994)273-288

Sealed cell electrodialysis

EDS: sealed cell electrodialysis
O. Kedem, J. Cohen, A. Warshawsky and N. Kahana 46(1983)291-299

Seawater

Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range
V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev 25(1978)269-280

A study on Posidonia residue in seawater intakes
E. Gabbrielli and A. Ripasarti 30(1979)127-143

Uptake of calcium and magnesium from the Arabian Gulf water on plastic and glass surfaces
A. M. Shams El Din and R. A. Mohammed (61(1987)245-248

Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants
V. Slesarenko and A. Shtim 71(1989)203-210

A general thermodynamic tool for predicting salting coefficients of non-electrolytes in brackish or seawater
D. Barba, F. Evangelista and L. Marrelli 71(1989)289-300

Scaling potential of Kuwait seawater for reverse osmosis desalination
S.E. Ebrahim and B.A. Darwish 74(1989)141-156

Factors affecting the corrosion behaviour of CN 108 alloy in sea water
G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa 74(1989)259-276

Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures
T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura 81(1991)219-227

Extraction and utilization of valuable components from ocean water
Y. Dytnersky and Y. Hojainov 81(1991)261-264

The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai
Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas 83(1991)65-75

Performance of the first sea water electrodialysis desalination plant in India
P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar 84(1991)201-211

Assessment of lower-alloy stainless steels for use in desalination plant
T. Hodgkiess and P.S. Chia 84(1991)267-278

Electrochemical behaviour of Al-brass in natural seawater
K. Habib and A. Amin 85(1992)275-282

Electrochemical behavior of copper-nickel alloys in sulphide polluted seawater at moderate temperatures
K. Habib 89(1992)41-46

The effect of molybdenum on the corrosion behaviour of some steel alloys
M.I. Hazza and M.E. El-Dahshan 95(1994)199-209

Stress corrosion cracking of copper-nickel alloys in sulphide polluted natural seawater at moderate temperatures
K. Habib and A. Husain 97(1994)29-34

Corrosion behavior of some highly alloyed stainless steels in seawater
A.U. Malik, N.A. Siddiqi and I.N. Andijani 97(1994)189-197

Localized corrosion of AISI 316L S.S in Arabian Gulf seawater
A.U. Malik and S.A. Al-Fozan 97(1994)199-212

Vacuum desalination for water purification using waste heat
J.H. Tay, S.C. Low and S. Jeyaseelan 106(1996)131-135

Effect of magnetic treatment on Gulf seawater
H. Al-Qahtani 107(1996)75-81

Biofilm formation on stainless steels in Arabian Gulf water
A.M. Shams El Din, T.M.H. Saber and A.A. Hammoud 107(1996)251-264

Peculiarities of boiling seawater in desalination plants
V.N. Slesarenko and V.V. Slesarenko 108(1996)105-109

Design of robust SISO Pl controllers for a MSF desalination plant
M. Chidambaram, B. Chandasekhara Reddy and D.M.K. Al-Gobaisi 109(1997)109119

Seawater alkalinity

The determination of carbonate-bicarbonate ratios and total alkalinity in treated sea water
W.A. Stuart and A.R. Lister 8(1970)69-72

Seawater boiling

Investigation of heat exchange during sea water boiling in a horizontal thin film desalination plant
V. Slesarenko 29(1979)311-318

Characteristics of thin film desalination plants
V. Slesarenko 94(1994)321-329

Seawater, Chlorinated

The pretreatment of seawater RO feed using the UVOX (W/oxidant) process
D. Hebden and G. R. Botha 32(1980)115-126

Corrosion problems caused by bromine formation in MSF desalination plants
J.W. Oldfield and B. Todd 38(1981)233-245

Corrosion problems caused by bromine formation in additive dosed MSF desalination plants
W.S.W. Lee, J.-W. Oldfield and B. Todd 44(1983)209-221

Trihalomethanes (THMs) formation in a distillation process
B. Tawabini, H. Kharaijian and N. Fayad 66(1987)403-414

Seawater circulation system

Design features of seawater intake, distribution and outfall systems, applied to the Ruwais Utilities Complex, Abu Dhabi
R. El-Assar, G. Jung and G. Gerrard 45(1983)115-118

Seawater concentrates, properties

Prediction of the density and viscosity of seawater, its concentrates and other multicomponent solutions using the Tammann-Tait-Gibson (TTG) model
J. V. Leyendekkers 29(1979)263-274

Seawater concentration

Reverse osmosis in seawater concentration
D. Sambrailo, B. Kunst and H. Ivekovic 46(1983)125-133

Seawater conversion

Concentration and demineralization of sea water by the hydrate process
J. Sugi and S. Saito 3(1967)27-31

Optimization of flash distillation plants for sea-water conversion
B. Kunst 3(1967)195-202

Demineralization of sea water by electrodialysis
T. Matsuda, S. Ogama and Y. Onoue 3(1967)295-303

Present technological status of the multi-stage flash type evaporation process
I. Vilentchuk 4(1968)220-235

Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973
K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood 14(1974)379-388

"No new water"
W.R. Querns 23(1977)409-421

Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant
S. C. May, E. H. Houle, S. A. Reed and W. F. Savage 30(1979)605-612

Seawater desalination

Compact apparatus for sea water desalination by electrodialysis using ion-exchange membranes
Y. Tsunoda and M. Kato 3(1967)66-81

Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination
F.S. Aschner, S. Yiftah and P. Glueckstern 3(1967)82-90

Questions of sea water desalination plant design
W. Fichtner 3(1967)252-258

Large-scale seawater desalination in the Netherlands
P.R. Bom 5(1968)75-81

The desalination of sea water by high temperature electrodialysis
C. Forgacs, L. Koslowsky and J. Rabinowitz 5(1968)349-358

A preliminary technical and economic investigation of sea water demineralization by ion-exchange for calcium and bicarbonate ions and their subsequent removal by thermal decomposition
J.P. Ranck 6(1969)75-85

Concentration polarization in the reverse osmosis desalination of sea water
J.S. Johnson and J.W. McCutchan 10(1972)147-156

Sea water desalination by reverse osmosis. Recent experience
P. Treille and J.M. Rovel 14(1974)21-31

Systems analysis of a multi-stage tubular module reverse osmosis plant for sea water desalination
J.W. McCutchan and V. Goel 14(1974)57 -76

Sea water desalination using glass hollow fibre membranes
S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor 14(1974)209-216

Desalination of sea water by direct osmosis
R. E. Kravath and J. A. Davis 16(1975)151-155

Live seawater experience in Japan with hollow fiber permeators
Y. Murayama, T. Kasamatsu and J.G. Gaydos 19(1976)439-446

A comparison of seawater desalination processes and their economics
K.C. Channabasappa 19(1976)535-554

Conjunctive use of desalination and wastewater reclamation in water resource planning
O.K. Buros 19(1976)587-594

Seawater desalting by electrodialysis
T. Miwa, D.R. Jordan and W.F. McIlhenny 20(1977)375-384

Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia
J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi 22(1977)299-309

Seawater desalination by electrodialysis
T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa 25(1978)1-7

Long term experiments on sea water desalination at the Chigasaki Laboratory
Y. Kunisada and Y. Murayama 27(1978)333-344

Seawater desalination: A low energy consuming solution: vapor compression *(in French)*
P. Blanc-Feraud 30(1979)469-482

Essentials on seawater desalination through vapour compression
D. Larger 31(1979)131-134, Err. 31(1979)125

The VTE boiler: An advanced thermal system for the desalination of sea water
I. Kamal and C.H. Hughes 31(1979)152

Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis
T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino 32(1980)93-101

Seawater reverse osmosis — Statement of the art assessment
S.R. Latour 32(1980)221

Desalting sea water to less than 4 ppm by electrodialysis
J.E. Lundstrom 32(1980)259-277

Low temperatures and dissolved gases: two problems in submarine sea water desalination
M. Hampe 34(1980)35-56

Process selection guide to seawater desalting
D. R. Finnegan and W. M. Wagner 38(1981)29-48

Utilization of the waste concentrated seawater in the desalination plants
T. Kawahara and K. Suzuki 38(1981)499-507

Seawater vs. brackish water desalting: Technology, operating problems and overall economics
P. Glueckstern and Y. Kantor 44(1983)51-60

Analysis of desalination alternates for phosphoric acid plant in Tunisia
C.D. Hornburg 55(1985)571-587

Demonstration plant for seawater desalination by reverse osmosis (RO-2 hollow fibre module line)
K. Marquardt and R. Nagel 60(1986)25-44

Design and field tests of a membrane distillation system for seawater desalination
N. Kjellander 61(1987)237-243

Sea water desalination in Kuwait — A report on 33 years experience
A.A.J. Al-Zubaidi 63(1987)1-55

Membrane development for seawater desalination
E. Drioli 63(1987)57-69

Seawater desalination with polyamide hollow fibre modules at DROP
R. Nagel 63(1987)225-246

Reverse osmosis seawater desalting plants built by the Minsterio de Obras Publicas y Urbanismo (Spain)
M. Torres and J.A. Vera 64(1987)443-458

Experience on pre- and post-treatment from seawater desalination plants in Saudi Arabia
N. A. Nada, Al-Zahrani and B. Ericsson 66(1987)303-318

Future for desalination by reverse osmosis
M.A. Jawad 72(1989)23-28

Performance of the solar desalination plant at Abu Dhabi
A.M. El-Nashar 72(1989)405-424

Feasibility of seawater desalination to solve water shortage problems of the Salina Cruz (Pemex) refinery
C.A. Fernández, B.H. Huerta and F.E. Latapí 73(1989)61-77

DELBUOY: Ocean wave-powered seawater reverse osmosis desalination system
D.C. Hicks, G.R. Mitcheson, C.M. Pleass and J.F. Salevan 73(1989)81-94

Operating experience of MSF desalination plant at the Abu Kammash chemical complex
N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni 73(1989)417-428

Corrosion behaviour of aluminium-base alloys in desalination plants
O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova 73(1989)457-458

Predictability of membrane performance of reverse osmosis systems for seawater desalination
B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad 75(1989)55-69

Simplified analysis of transport in reverse osmosis (RO) hollow fiber (HF) membranes
M. Abdel-Jawad and M.A. Darwish 75(1989)97-116

Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m^3/d and 3,000 m^3/d
G. Fosselard and K. Wangnick 76(1989)215-240

Experiments on sea water desalination by membrane distillation
K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya 78(1990)177-185

Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants
M.A. Darwish, M. Abdel Jawad and G.S. Aly 78(1990)313-326

Membrane distillation with fluoro-carbon membranes
K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya 81(1991)107-115

Sea water desalination in thin film plants
V. Slesarenko 81(1991)407-417

Development of a rugged design of a high efficiency multi-stage solar still
P. Le Goff, J. Le Goff and M. Razak Jeday 82(1991)153-163

Low temperature, multi-effect distillation for cogeneration yielding the most efficient sea water desalination system
A. Ophir 84(1991)85-101

The Puraq seawater desalination process — An update
L. Lazare 85(1992)345-360

Drought-proofing in Southern California by seawater desalting is economic today
W.E. Katz 86(1992)1-8

Seawater desalting for Southern California: Technical and economic considerations
G. Hess, O.J. Morin and W.V. Carrigan 87(1992)55-68

The application of solar energy for large-scale seawater desalination
D. Hoffman 89(1992)115-184

Efficiency of two scale prevention methods for desalting Caspian seawater
O.D. Linnikov, V.L. Podbereznyi, E.A. Anokhina and O.V. Guseva 89(1993)311-323

Towards less expensive fresh water from the sea
M.G. Morsy 93(1993)397-408

Retrofitting and repowering of coastal power stations to augment water supplies in Southern California
G.V. Sims and I. Kamal 94(1994)251-259

Characteristics of thin film desalination plants
V. Slesarenko 94(1994)321-329

Evaluation of corrosion-resistant alloys for desalination applications
J.A. Carew, M. Abdel-Jawad and Y. Al-Wazzan 95(1994)53-74

Performance characteristics of a multi effect solar pond desalting system in an arid environment
O. Al-Hawaj and M.A. Darwish 96(1994)3-10

The Yathrib system
S. Imam and S. Begum 96(1994)119-125

Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination
M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura 96(1994)133-143

Seawater desalination in thin film plants
V. Slesarenko 96(1994)173-181

The reference and analysis of a double-element type hollow fiber RO module in seawater desalination
N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto 96(1994)441-450

Using different types of anti-scalants at the Al-Jubail Power and Desalination Plant in Saudi Arabia
S. Al-Zahrani, A.M. Al-Ajlan and A.M. Al-Jardan 97(1994)17-28

Clad steel for seawater service
T. Fukuda, T. Fukami, Y. Baba and K. Honma 97(1994)121-129

Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets
K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto 97(1994)147-158

Seawater desalination to augment the water supply on Penghu Island, Taiwan
Jack Chen, Harry S. Lu and Leon Awerbuch 97(1994)319-325

Features of nuclear desalination systems for Saudi Arabia
I.I. Kutbi and K.M. Al-Sulaiman 97(1994)327-337

Economics of seawater desalination by reverse osmosis
S. Ebrahim and M. Abdel-Jawad 99(1994)39-55

Perspectives of nuclear energy for seawater desalination
J. Kupitz and M.J. Crijns 99(1994)299-327

The 200 MW nuclear heating reactor and its possible application in seawater desalination
Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang 99(1994)367-381

A new water and power combination: Vacuum vapor compression seawater distillation and natural gas fuel cells
R.L. Campbell and T.H. Emerson 99(1994)423-445

The case for seawater desalination to solve the water shortage in the Gaza Strip
T. Loewy 99(1994)447-458

A quarter-century of seawater desalination by large multistage flash plants in Abu Dhabi (Plant performance analysis, assessment, present efforts toward enhancement and future hopes)
D.M.K. Al-Gobaisi 99(1994)483-508

Potential uses of solar energy for seawater desalination
P. Glueckstern 101(1995)11-20

An assessment of desalination technology for the Rosarito Repowering Project
I. Kamal 102(1995)269-278

Co-located seawater desalination/power facilities: Practical and institutional issues
R.R. Yamada, J.K. Laughlin and D.K. Wood 102(1995)279-286

Energy-efficient schemes for seawater desalination
M. Reali and G.A. Bemporad 105(1996)171

Polarization phenomena in integrated reverse osmosis and membrane distillation for seawater desalination and waste water treatment
V. Calabro and E. Drioli 108(1996)81-82

Submarine and underground reverse osmosis schemes for energy-efficient seawater desalination
M. Reali, M. de Gerloni and A. Sampaolo 109(1997)269-275

Seawater desalination, electrodialysis

Ionic membrane electrodialyzer for marine use
S. Itoi 2(1967)378-386

An electrodialysis sea water desalination system powered by photovoltaic cells
O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri 65(1987)161-169

Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater by electrodialysis
S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan 69(1988)261-273

Seawater desalination plants

Light gauge welded titanium tubes for seawater desalination plants
K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida 73(1989)429-446

Variable speed turbo couplings used for speed control of pumps for seawater desalination plants
H. Burkard 82(1991)107-117

Seawater desalination plant for Southern California
R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean 99(1994)459-481

Seawater desalination, thermal energy

Some investigations on the possibility of using ocean thermal gradient (OTG) for seawater desalination
G. Damy and J. Marvaldi 67(1987)197-214

Seawater distillation

Large long-tube vertical evaporators for sea water distillation
M. Schaal, F.S. Aschner and D. Hasson 10(1972)67-93, Err. 10(1972)220

Distillation of seawater as a supplementary water resource
A.T. Hooper and H.B. Jackson 19(1976)241-256

Magnesium scales from seawater distillation
J. Block and B.M. Watson 19(1976)359-368

Some recent developments in sea water distillation carried out in France
F. Dubois, F. Lauro and J.J. Libert 23(1977)423-431

Electrolytic deposition for scale control in sea water distillation
M.K.V. Nair and B.M. Misra 27(1978)59-64

Corrosion measurement and assessment in acid dosed desalination plants
K. Harding and D.A. Bridle 28(1979)89-108

BELGARD®EV - 15 years' experience in scale control
M.A. Finan, S. Smith, C.K. Evans and J.W.H. Muir 73(1989)341-357

Large-scale sea-water distillation for Southern California
R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr. and H.H. Sephton 87(1992)69-83

The effects and limitations issued by non-condensible gases in sea water distillers
K. Genthner, A. Gregorzewski and A. Seifert 93(1993)207-234

Simulation of the steady-state operation of a multi-effect stack seawater distillation plant
A.M. El-Nashar and A.A. Qamhiyeh 101(1995)231-243

Environmental impacts of seawater distillation and reverse osmosis processes
A.J. Morton, I.K. Callister and N.M. Wade 108(1996)1-10

Seawater, electrochemical induced changes

Electrochemical studies on sea water applied to desalination
M.K.V. Nair, B.M. Misra and D.G. Vartak 42(1982)199-207

Seawater evaporators

Calcium sulphate scale deposition in sea water evaporators
H.C. Simpson and M. Hutchinson 2(1967)308-324

The present state of scale control in sea water evaporators
M.N. Elliot 6(1969)87-104

Seawater flocculation

Pretreatment of seawater by flocculation and settling for particulates removal
A. Adin and C. Klein-Banay
58(1986)227-241

Seawater flow control

Control in multiple effect evaporator plants
F.C. Standiford 59(1986)263-292

Seawater handling system

Measurement and control of feed water and product water composition
W.F. McIlhenny 59(1986)445-460

Seawater, High-salinity

Single-pass desalination of high salinity seawater with reverse osmosis
H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai 38(1981)441-447

Seawater intake

Problems on sea water intake and discharge facilities in coastal region
S. Iso 22(1977)159-168

A study on Posidonia residue in seawater intakes
E. Gabbrielli and A. Ripasarti
30(1979)127-143

Sea water intake and its effect on heat rejection design and material for flash distillation plant
M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim
38(1981)257-267

Seawater intake, Beachwell

Beachwell seawater intake as feed for an RO desalting system
M. Abdel-Jawad and S. Ebrahim
99(1994)57-71

Seawater intakes

Seawater intakes for desalination plants in Libya
S. A. Kreshman 55(1985)493-502

Seawater membranes, flat

Permeability measurements of flat seawater membranes
J.P. Agrawal, C.R. Antonson and N.W. Rosenblatt 11(1972)71-90

Seawater, Non-chlorinated

Desalination of non-chlorinated surface seawater using TFC^{R} membrane elements
W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham
70(1988)47-64

Seawater, Ozonated

The pretreatment of seawater RO feed using the UVOX (W/oxidant) process
D. Hebden and G. R. Botha
32(1980)115-126

Seawater, Pretreatment

The pretreatment of seawater RO feed using the UVOX (W/oxidant) process
D. Hebden and G. R. Botha
32(1980)115-126

Experience on pre- and post-treatment from seawater desalination plants in Saudi Arabia
N. A. Nada, Al-Zahrani and B. Ericsson 66(1987)303-318

Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant
S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
66(1987)339-351

An investigation of the modified fouling index as a test for plugging potential of pretreated seawater
D. R. van der Vaart and E. P. Stahel
68(1988)45-56

Conventional pretreatment of surface seawater for reverse osmosis application, state of the art
A.Y. Al-Borno and M. Abdel-Jawad
74(1989)3-36

Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant
R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
82(1991)337-349

Preliminary experiment on seawater pretreatment with UF membranes for RO desalination
T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto 93(1993)235-244

Seawater, properties

Some physical properties of sea water in various concentrations
W.H. Emerson and D.T. Jamieson
3(1967)213-224

Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: Theoretical calculation of the osmotic coefficient
C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
10(1972)263-272

The rate of heat transfer of seawater and NaCI solutions under conditions of one- and two-phase flow in tubes
V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein 26(1978)175-180

Prediction of the density and viscosity of seawater, its concentrates and other multicomponent solutions using the Tammann-Tait-Gibson (TTG) model
J. V. Leyendekkers 29(1979)263-274

Electrochemical studies on sea water applied to desalination
M.K.V. Nair, B.M. Misra and D.G. Vartak 42(1982)199-207

Seawater pumping stations

Seawater pumping stations *(in French)*
A. Le Grand and J. Gatignol
31(1979)173-181

Seawater reclamation

Developing and financing new water facilities: Alternatives for desalination and reclamation plants
N.C. Smith 87(1992)85-95

Seawater regenerated ion exchange

Evaluation of an ion-exchange system regenerated with seawater for the increase of product recovery of reverse osmosis brackish water plant
M. Wilf, M. Konstantin and A. Chencinsky 34(1980)189-197

Seawater reverse osmosis

Seawater reverse osmosis: an economic alternative to distillation
D.C. Brandt 52(1985)177-186

Seawater desalination by reverse osmosis. Plant design, performance data, operation and maintenance (Tanajib, Arabian Gulf Coast)
W. Heyden 52(1985)187-199

Experiments on RO process for production of boiler make-up water from sea water
K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama 56(1985)367-379

The Malta seawater RO facility
W. T. Andrews and R. A. Bergman 60(1986)135-144

The Malta seawater RO facility — Update on the first two years operation
W.T. Andrews 60(1986)145-150

Conventional pretreatment of surface seawater for reverse osmosis application, state of the art
A.Y. Al-Borno and M. Abdel-Jawad 74(1989)3-36

Technoeconomic considerations in reverse osmotic concentration of seawater
D. Sambrailo and B. Kunst 81(1991)209-218

Seawater reverse osmosis. A study in use
A.M. Ahmed and I. Moch, Jr. 82(1991)3-13

The behavior of an oxidizing/reducing agent in seawater
M. Nagai, H. Iwahashi, Y. Hayashi and Y. Ogino 96(1994)291-301

Performance of commercial seawater membranes
M. Wilf and K. Klinko 96(1994)465-478

Ocean brine disposal
J.V. Del Bene, G. Jirka and J. Largier 97(1994)365-372

Proposed Marin Desalination Plant — Siting criteria, evaluation and results
R.F. Young 102(1995)171-178

Conventional pretreatment system for the Doha Reverse Osmosis Plant: Technical and economic assessment
S.H. Ebrahim, M.M. Abdel-Jawad and M. Safar 102(1995)179-187

Low cost incremental seawater plant capacity increase by coupling advanced pumping and RO technologies
E. Oklejas, I. Moch and K.Nielsen 102(1995)189-197

Whatever happened to seawater desalting in the US? (Can the trend be changed?)
G.F. Leitner 102(1995)199-207

Reactivating after 11 years a 3 mgd seawater RO plant in Florida
R.E. Benson and I. Moch 102(1995)209-218

The pressure exchanger — A key to substantial lower desalination cost
L.J. Hauge 102(1995)219-223

Cogeneration with the LT-MED desalination process
G. Kronenberg 108(1996)287-294

ENEL experience of seawater desalination plants
A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi 108(1996)345-355

Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique
S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji 110(1997)85-92

Seawater reverse osmosis pretreatment with an emphasis on Jeddah plant operation experience
A.H.H. Al-Sheikh 110(1997)183-192

Seawater reverse osmosis membranes

Evaluation of commercial cleaning agents for seawater reverse osmosis membranes
S. Ebrahim and H. El-Dessouky 99(1994)169-188

Development and experience in seawater applications with the new seawater FILMTEC reverse osmosis membrane
J.A. Redondo 105(1996)71-78

Seawater reverse osmosis plants

Two seawater reverse osmosis plants at high pressure and 50% conversion
H. Winters 65(1987)189-195

Conventional pretreatment of surface seawater for reverse osmosis application, state of the art
A.Y. Al-Borno and M. Abdel-Jawad 74(1989)3-36

Performance evaluation of SWCC SWRO plants
A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri 74(1989)37-50

New chloramine process to control aftergrowth and biofouling in Permasep^{R} B-10 RO surface seawater plants
L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters 74(1989)51-67

Performance of materials used in seawater reverse osmosis plants
J. Carew, M. Abdel-Jawad, A. Julka and Y. Al-Wazzan 74(1989)85-112

Corrosion resistant materials for seawater RO plants
A.M. Hassan and A.U. Malik 74(1989)157-170

Three-year experience of a seawater RO plant operating at a conversion greater than 50% in the Cayman Islands
H. Winters 74(1989)183-185

Economic and technical factors affecting seawater reverse osmosis process design
T.E. Sulpizio, W.G. Light and J.L. Perlman 74(1989)187-201

Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant
M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai 76(1989)75-88

Parametric cost analysis study of seawater reverse osmosis systems design in Kuwait
A.A.J. Al-Zubaidi 76(1989)241-280

Total water costs on a standard basis for three large, operating, S.W.R.O. plants
G.F. Leitner 81(1991)39-48

Operating results and economics of single stage and two stage large size sea water RO systems
S. Kremen, M. Wilf and P. Lange 82(1991)15-30

Operating experiences in a sea water reverse osmosis plant in Gibraltar. (1987-1990)
E.G. Darton and A.G. Turner 82(1991)51-69

Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m^3/day RO plant
J.F. Henriquez, J. Bonet and J. Etxaniz 82(1991)71-106

Material selection for the high pressure section of seawater RO plants
A. Abu-Safiah 84(1991)279-308

Failure of sections and components in seawater RO plants
A. Abu-Safiah 84(1991)309-333

Stainless steel for high pressure piping in SWRO plants. Are there any options?
J. Nordström and J. Olsson 97(1994)213-220

Seawater reverse osmosis pump

Development, testing and the economics of a composite/plastic seawater reverse osmosis pump
D.C. Hicks, W.A. Fearn, C.M. Pleass and D. Staples 73(1989)95-109

Seawater reverse osmosis systems

Beachwell seawater intake as feed for an RO desalting system
M. Abdel-Jawad and S. Ebrahim 99(1994)57-71

Seawater softening

Sea water softening by osmosis through desalinating membranes
E. Glueckauf, L.A. McDonald and P.J. Russell 3(1967)155-168

A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening
D. Barba, V. Brandani and P. U. Foscolo 48(1983)133-146

Seawater solutions

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi 2(1967)271-278

The solubility of calcium sulphate in sodium chloride and sea salt solutions
E. Furby, E. Glueckauf and L.A. McDonald 4(1968)264-276

Physical properties of sea water solutions: Heat capacity
D.T. Jamieson, J.S. Tudhope, R. Morris and G. Cartwright 7(1969)23-30

Physical properties of sea water solutions: thermal conductivity
D.T. Jamieson and J.S. Tudhope 8(1970)393-401

Physical properties of sea water solutions: Viscosity
J.D. Isdale, C.M. Spence and J.S. Tudhope 10(1972)319-328

Physical properties of sea water solutions: Density
J.D. Isdale and R. Morris 10(1972)329-339

Viscosity of sea water solutions
S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley 13(1973)37 -51

Seawater, surface

Pretreatment of surface seawater feed at DROP
S. Ebrahim and A. Malik 63(1987)95-107

Desalination of non-chlorinated surface seawater using TFC^R membrane elements
W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham 70(1988)47-64

Secondary refrigerant freezing process

Assessment of crystalliser designs for a butane freeze desalination process
M. Landau and A. Martindale 3(1967)318-329

Hydrate formation in *i*-butane-*n*-butane or a butene isomer water system at a given temperature
T. Uchida and I. Hayano 3(1967)373-377

The state of the crystallization processes for desalting saline waters
A.J. Barduhn 5(1968)173-184

Nucleation and growth of ice crystals in secondary refrigerant freezing
J.C. Orcutt 7(1969)75-96

The secondary refrigerant freezing process: A modeling study
J.C. Orcutt and F.J. Hale 7(1970)201-227

Vacuum stripping of butane from water in a packed column
J.-E. Bajolle, P.A. Rice and A.J. Barduhn 9(1971)351-366

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 ($CClF_2CClF_2$)
G.L. Stepakoff and A.P. Modica 12(1973)85-105

Numerical determination of time responses of three flows heat exchanger in desalination plants
H. El-Hares 19(1976)103-112

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

An integral design for desalination plant using the secondary refrigerant freeze process
A.I. Lloyd 21(1977)137-146

Desalinated water production at LNG terminals
A. Antonelli 45(1983)383-390

Fresh water from the sea, a new process
J. B. Maguire 67(1987)155-162

Secondary sewage effluent

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

Secondary steam production

The quality of the distillate of desalination plants with a washing device
L.S. Sterman, V.M. Lavigin and V.D. Rojnatovsky 45(1983)253-261

Secondary steam supply

The VTE boiler: an advanced thermal system for the desalination of sea water
I. Kamal and C.H. Hughes 31(1979)533-544

Sedimentation

Flocculation, precipitation, sedimentation and flotation for use as pretreatment stages for brackish water and seawater in desalination plants
K. Marquardt 52(1984)43-55

Seed slurry process

The economics of the seed slurry process for scale control
O. Pfefferkorn 19(1976)75-82

Seeded crystallization, membrane assisted

Water treatment in a Membrane-Assisted Crystallizer (MAC)
J.T.M. Sluys, D. Verdoes and J.H. Hanemaaijer 104(1996)135-139

Seeding

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Seeding processes

Prevention of scale formation in distillation desalination plants by means of seeding
V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novilov and V.I. Tkach 1(1966)50-60

Evaluation of the calcium diminution in the circulated brine of a BSS-MSF plant
K. R. Fröhner 16(1975)157-167

An advanced seeding process in saline water conversion
K.R. Fröhner and H. Panahandeh 16(1975)261-269

The barium sulfate seeding process
F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh 21(1977)59-70

Seeding technique

Seeding technique for "zero-discharge" processes, adaption to electrodialysis
R. Rautenbach and R. Habbe 84(1991)153-161

Selection criteria

Selection of small desalination plants for specific locations: Reverse osmosis, flash distillation, vapour compression
K. Wangnick 52(1985)145-165

Selection parameters

Selection for desalination processes for dual-purpose nuclear plants
I. I. Kutbi, Z. A. Sabri and A. A. Husseiny 58(1986)113-134

Selective ion removal

An overview of arsenic removal processes
E.O. Kartinen, Jr. and C.J. Martin 103(1995)79-88

Cost comparison of treatment alternatives for the removal of nitrates and DBCP from Southern California groundwater
W.J. Conlon, F.A. Blandon and J. Moody 103(1995)89-100

Nitrate removal and water quality improvements with reverse osmosis for Brighton, Colorado
J.N. Cevaal, W.B. Suratt and J.E.Burke 103(1995)101-112

Selective resins

Removal of heavy metals from tap water by a cation exchanger
E. Korngold, S. Belfer and C. Urtizberea 104(1996)197-201

Selectivity

The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review
A.D. Marshall, P.A. Munro and G. Trägårdh 91(1993)65-108

Semi-permeable membranes

Representations of coupling in osmotic membranes
U. Merten 6(1969)293-302

A new support for semi-permeable membranes
C. Bardonnet, R. Brun and M. Pages 21(1977)203-208

Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane
S. Reich, B. Gavish and S. Lifson 24(1978)295-296

Sensitivity analysis

Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis
L.E. Stamets, L.T. Fan and C.L. Hwang 11(1972)239-254

Separation

Separation of aqueous organic liquid solutions through polymer membranes
T. Uragami 90(1993)325-334

Theoretical studies on the separation of different ionic species of the same charge sign using cascaded electrodialysis with reflux
H. Ohya, A. Hakamaya, Y. Hiraoka and Y. Negishi 94(1993)167-199

Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model
J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer 99(1994)1-18

Separation potential

Separation potential of nanofiltration membranes
R. Rautenbach and A. Gröschl 77(1990)73-84

Separators

The influence of separators on hydrodynamics and mass transfer in narrow cells: Flow visualisation
P. Feron and G.S. Solt 84(1991)137-152

Sessile drop method

Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles
W. Zhang, M. Wahlgren and B. Sivik
72(1989)263-273

Sewage

Pretreatment to produce ultrapure water from reclaimed sewage
K.K. Chin 106(1996)269-272

Sewage conversion

A review of effluent re-use in Coffs Harbour: Desalination versus effluent re-use at Opal Cove Resort
E.J. Armstrong and R. Butler
106(1996)285-290

Sewage sludge

Utilization of treated wastewaters and sewage sludge in agriculture in Tunisia
A. Bahri 67(1987)233-244

Sewage treatment

Water reclamation from sewage using traditional techniques — Some large scale examples
C. Bowler and S.H. Greenhalgh
56(1985)131-136

Advanced water treatment (AWT) facility at Madras Refineries Limited, Madras - sewage water reused
J.C. Thomas 98(1994)295-301

Wastewater 2040 — Alternative effluent disposal and reuse options for Perth and southern regions
R. van Oorschot and M. French
106(1996)157-163

On-site tertiary treatment using Ecomax systems
M. Bowman 106(1996)305-310

Wastewater reuse studies and trials in Canberra
J. Neal 106(1996)399-405

Sewage treatment plant

A novel new water source for Madras Fertilisers Ltd.
A.G. Turner, P.S. Neelakantan and N. Gajendran 98(1994)285-293

Shell flow

Reverse osmosis in shell and tubes
Y. Winograd, M. Toren and A. Solan
14(1974)173-187

Shellside pressure drop

An improved MSF condenser design
T.J. Rabas 55(1985)169-183

Ship-mounted plants

Ship-mounted seawater 2500 m^3/d flash evaporation plant for Abu Dhabi. Economical drinking water for arid regions
K. Wangnick 41(1982)171-180

Short-cut method

Short-cut method for estimating membrane number, product salinity and replacement ratio
M.A. Marwan 94(1993)201-212

Silico-organic liquids

Investigation of water steam drop condensation conditions
L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova 2(1967)337-344

Silk waste waters

Treatment of waste water from silk degumming processes for protein recovery and water reuse
C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita 105(1996)1-9

Silt density index

Some observations on the considerable variability of silt density index results due to equipment, filter and operator variables
N. R. G. Walton 61(1987)201-210

Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods
A. C. Molseed, J. R. Hunt and M. W. Cowin 61(1987)249-262

Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant
S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
66(1987)339-351

Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination
H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly
66(1987)423-430

Pretreatment of the municipal wastewater feed for reverse osmosis plants
M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari
109(1997)211-223

Silver saturated cation exchanger

Desalination by an ion exchange-precipitation-complex process
A.R. Glueck 4(1968)32-37

Similarity criteria

Applied similarity criteria in the scale-up from existing to large MSF desalination plants
D. Barba, S. Arazzini and G. Migliorini 49(1984)1-15

Simulation

Development and application of a roof type solar still
K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
73(1989)111-118

Simulation of MSF desalination plants
I.S. Al-Mutaz and M.A. Soliman
74(1989)317-326

An approximate analytical solution for the performance of reverse osmosis plants
A.E.S. Al-Zahrani, M.A. Soliman and I.S. Al Mutaz 75(1989)15-24

Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation
A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva 92(1993)21-41

Improvement of the design and operation of desalination plants by computer modelling and simulation
M.T. Rahbar 92(1993)253-269

Modelling and simulation of a multistage flash (MSF) desalination plant
A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan, H. and P.B. Deshpandey 97(1994)555-586

Three-dimensional simulation of random packing and pore blocking phenomena during microfiltration
T. Kawakatsu, M. Nakajima, S. Nakao and S. Kimura
101(1995)203-209

A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan
N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi 109(1997)277-284

Simulation model

Modeling of a small scale reverse osmosis systems
C. S. Slater, J. M. Zielinski, R. G. Wendel and C. G. Uchrin
52(1985)267-284

Simulation model for desalting HTME-type evaporators
M. Elmethnani 97(1994)541-545

Single-column ion exchange

Water-softening by continuous counter-current ion-exchange single column technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 48(1983)281-292

Single-purpose plants

Use of nuclear plants in the desalination of sea water *(in German)*
L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow
4(1968)103-118

Present and future energy aspects in VC, MED single and dual purpose desalination plants
J. Weinberg and U. Fisher
40(1982)49-61

Solar energy as a source for production of power and desalinated water
A. Ophir and N. Nadav
40(1982)103-124

Distillation and reverse osmosis: Energy consumption and costs
N.M. Wade and M.R. Hornsby
40(1982)245-257

Single-solute aqueous solutions

Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from single solute aqueous solution
S. W. Thiel and D. R. Lloyd
46(1983)399-406

Single-stage flash evaporator

The effect of hydraulic jump on the performance of a single-stage flash evaporator
A.H. Abdelmessih and I.C. Hsu
19(1976)65-74

Comparison between the use of a baffle and a wire mesh in flashing units
M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky 19(1975)83-92

Flashing in desalination units
M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky 19(1976)93-101

Sink model

Analytical solution of a sink model of a two dimensional counterwasher
N.H. Kemp 12(1973)127-139

Sintered polymer structure

Oxygenation phenomena as a function of sintered polymer structure of air diffusers
A. Poranek and T. Winnicki
48(1983)85-93

Skid-mounted electrodialyzer

Energy-saving electrodialyzer for sea water desalination
T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi 38(1981)583

Skim natural rubber latex

Performance of fractal membranes in the ultrafiltration of skim natural rubber latex
M. S. Suwandi and M. S. Lefebvre
70(1988)225-228

Skinned membranes

The mechanism for formation of "skinned" membranes. I. Structure and properties of membranes cast from binary solutions
R. Bloch and M.A. Frommer
7(1970)259-264

The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure
M.A. Frommer, I. Feiner, O. Kedem and R. Bloch 7(1970)393-402

Reverse osmosis with a cellulose acetate membrane in the reverse orientation
J.A.M. Smit 36(1981)291-297

Slaughterhouse effluents

Ultrafiltration of effluents from slaughterhouses and brine in the meat industry
M. Goldberg 35(1980)303-315

Sludge

The dewatering of sludges using a tubular filter press
K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley 67(1987)467-479

Treatment of wastewater and sludge by a catalytic wet oxidation process
Y. Harada and K. Yamasaki
98(1994)27-39

Production of heavy oil from sewage sludge by direct thermochemical liquefaction
S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama 98(1994)127-133

Sludge depositions

Sludge depositions in a long tube-high flow MSF test plant
T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
17(1975)87-95

Sludge dewatering

The dewatering of sludges using a tubular filter press
K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley 67(1987)467-479

Sludge disposal

Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A.
S.H. Suemoto, L.A. Haugseth and C.D. Moody 96(1994)43-50

Sludge fouling

Measurements and control related to corrosion and scale in water desalination installations
C.F. Schrieber 59(1986)425-444

Sludge reuse

Regulatory framework in South Australia and reclaimed water reuse options and possibilities
N.M. Kayaalp 106(1996)317-322

Sluice gate design

Experimental verification of interstage sluice gate design equations
M. M. Hilal, M. A. Marwan and A. H. Mariy 61(1987)7-16

Sluice gates

Design equations for a new set up of sluice gates to stabilize inter-scale brine flow
M. M. Hilal and M. A. Marwan 55(1985)139-144

Slurry separators

Experimental study of slurry separators for use in desalination
J. Shwartz and R.F. Probstein 6(1969)239-266

Small-waste technology

Small-waste technology of processing industrial waste water on the basis of thermal demineralization
A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina 108(1996)361-364

Socio-cultural factors

Non-conventional water sources for small remote communities in developing countries
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem 47(1983)285-292

Socio-economic factors

Non-conventional water sources for small remote communities in developing countries
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem 47(1983)285-292

Soda recovery

Membrane technique in simplification of soda recovery process in pulp and paper industry
S. Basu and V.S. Sapkal 67(1987)371-379

Soda regeneration

Electrodialysis in the regeneration of paper mill spent liquor
K. Radhamohan and S. Basu 33(1980)185-200

Sodium alginate

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

Sodium bisulfite

Reaction kinetics of sodium bisulfite and dissolved oxygen in seawater and their applications to seawater reverse osmosis
N. Matsuka, Y. Nakagawa, M. Kurihara and T. Tonomura 51(1984)163-171

Sodium carbonate nanofiltration

The effect of pH on the nanofiltration of the carbonate system in solution
A.E. Simpson, C.A. Kerr and C.A. Buckley 64(1987)305 -319

Sodium chloride

Vapor pressures of binary aqueous solutions of NaCI, KCI, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)139-148

Vapor pressures of ternary aqueous solutions of NaCI, KCI, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)149-155

Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions
W.W. Carey, N.A. Klausutis and A.J. Barduhn 1(1966)342-358

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi 2(1967)271-278

The solubility of calcium sulphate in sodium chloride and sea salt solutions
E. Furby, E. Glueckauf and L.A. McDonald 4(1968)264-276

Enthalpies of aqueous sodium chloride solutions from 32 to 350°F
A.M. Rowe, Jr. and James C. S. Chou 6(1969)105-115

Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range
V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev 25(1978)269-280

The rate of heat transfer of seawater and NaCI solutions under conditions of one- and two-phase flow in tubes
V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein 26(1978)175-180

Electric resistance of ion-exchange membranes in dilute solutions
K. Urano, Y. Masaki and M. Kawabata 58(1986)171-176

The effect of molybdenum on the corrosion behaviour of some steel alloys
M.I. Hazza and M.E. El-Dahshan 95(1994)199-209

Sodium dodecylsulfate

The poisoning of anion-selective membranes by sodium dodecylsulphate
E.J.M. Kobus and P.M. Heertjes 10(1972)383-401

Sodium fluoride solutions

A note on fluoride removal by reverse osmosis
B.R. Min, A.L. Gill and W.N. Gill 49(1984)89-93

Sodium humate

Prevention of colloidal-fouling in electrodialysis by chlorination
E. Korngold 9(1971)213-216

The poisoning for anion-selective membranes by humic substances
E.J.M. Kobus and P.M. Heertjes 12(1973)333-342

Sodium hydroxide production

The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions
N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov 46(1983)197-201

Sodium hydroxide recovery

The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water
A.E. Simpson and C.A. Buckley 67(1987)409-429

Sodium molybdate

The inhibition effect of sodium molybdate on the initiation of corrosion fatigue of 1020 mild steel in aqueous solution
A. Husain, K. Habib and R. Jarman 99(1994)113-118

Mechanism of corrosion inhibition by sodium molybdate
A.M. Shams El Din and Linfu Wang 107(1996)29-43

Sodium naphthalenemonosulfonate

Increase in electric resistance of ion exchange membranes by fouling with naphthalenemonosulfonate
K. Urano, Y. Masaki and Y. Naito 58(1986)177-186

Sodium nitrate

Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler 34(1980)25-34

Sodium sulfate

Vapor pressures of binary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)139-148

Vapor pressures of ternary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)149-155

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi 2(1967)271-278

Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range
V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev 25(1978)269-280

Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler 34(1980)25-34

The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions
N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov 46(1983)197-201

Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration
C.V. Devmurari and M.V. Chandorikar 48(1983)331-337

Electric resistance of ion-exchange membranes in dilute solutions
K. Urano, Y. Masaki and M. Kawabata 58(1986)171-176

Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane
D. Raucq, G. Pourcelly and C. Gavach 91(1993)163-175

Sodium tri-polyphosphate

Scales from phosphate treated sea water
O. Flint 6(1969)319-334

Sodium-ion pairs

Dissociation constants of certain scale forming salts
O.I. Martynova, L.G. Vasina and S.A. Pozdniakova 15(1974)259-265

Softening

THM precursor removal and softening — Ft. Myers 12 MGD RO Membrane Plant, Florida, USA
P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson 76(1989)39-52

Solar

Solar desalination with a humidification-dehumidification cycle
M. Farid and A.W. Al-Hajaj 106(1996)427-429

A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan
N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi 109(1997)277-284

Solar boiler performance

Test results from a solar boiler for saline water distillation
Z.M. Jundi and B.W. Tleimat 39(1981)63-70

Solar collector

Wastewater detoxification of organic and inorganic toxic compounds with solar collectors
P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato 108(1996)213-220

Corrosion-free collectors with selectively coated plastic absorbers
M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr 109(1997)149155

Solar desalination

Scope and development of solar stills for water desalination in India
S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar 5(1968)64-74

Fresh water, energy, and food from the sea and the sun
D.F. Othmer 17(1975)193-214

Desalting saline ground water for agriculture
Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar 19(1976)175-188

Solar-assisted still with vapor-compression option
B.W. Tleimat, E.D. Howe and A.D.K. Laird 22(1977)41-54

Solar applications in desalting
E. Delyannis and A. Delyannis 23(1977)541-547

Iceberg utilization and alternative systems related to fresh water transport — Recycling and supplementary desalinization
C.D. Looyen 29(1979)173-189

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes
X. Ibarra-Herrera 30(1979)91

Greenhouses with solar desalination *(in French)*
P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger 31(1979)429-434

Technical and economical evaluation of an MSF solar energy powered desalination plant
S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito 31(1979)443-455

Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems
L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi 31(1979)457-468

Critical analysis of a proposed solar assisted HTE desalination system
G.G. Fenton and J.P. Gerofi 33(1980)211-219

Design of a small solar-powered desalination system
T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione 39(1981)71-81

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 45(1983)373

The Sydney University solar desalination pilot plant design
J. P. Gerofi 45(1983)375-382

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 49(1984)293-319

Solar desalination
A.A. Delyannis and E. Delyannis 50(1984)71-81

Supply of desalted water to remote arid zones
A. F. Abdul-Fattah 60(1986)151-164

Selection of solar desalination system for supply of water in remote arid zones
A.F. Abdul-Fattah 60(1986)165-189

Use of low grade in driving small freezing units for desalination
A. F. Abdul-Fattah 61(1987)169 -18:

Status of solar assisted desalination: A review
E.-E. Delyannis 67(1987)3-19

Solar desalination based on the multi-cycle concept
H. J. T. Sousa and V. Janisch 67(1987)75-80

Solar desalination as a means to provide Indian villages with drinking water
S. D. Gomkale 69(1988)171-176

Performance of the solar desalination plant at Abu Dhabi
A.M. El-Nashar 72(1989)405-424

Humidity water vapour collection by absorption cooling machines
S.E. Aly 73(1989)139-165

Performance ratio, area economy and economic return for an integrated solar energy/multi-stage flash desalination plant
D. Singh and S.K. Sharma 73(1989)191-195

The solar thermal desalination research project at the Platforma Solar de Almeria
A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe 82(1991)145-152

Design and performance of solar MSF desalination systems
A. Hanafi 82(1991)175-185

Enhanced evaporation of saline water in multi-purpose solar desalination units
H.K. Abdel-Aal and M.A. Al-Naafa 93(1993)557-562

Solar desalination in Sudan
S.S. Ali 93(1993)581-585

Factors influencing the performance of basin-type solar desalination units
A.-M. A. El-Bassouni 93(1993)625-632

Solar photovoltaic desalination of brackish water in remote areas by electrodualysis
N. Ishimaru 98(1994)485-493

The analysis and performance of large-scale stand-alone solar desalination plants
P.T. Tsilingiris 103(1995)249-255

Solar desalination plants

Design aspects of a solar assisted reverse osmosis desalting unit for urban communities
A.M. El-Nashar and A.A. Husseiny 32(1980)239-256

An assessment of the market potential for small solar powered desalination plants
J.J. Turnage and A.A. Husseiny 39(1981)43-52

Design and operation experience with solar powered multistage desalination plants
R. Kriesi 39(1981)109-116

Development of SOLAR DESAL, a code for modeling, simulation and design of solar desalination systems
T. E. Dix 39(1981)169-170

Engineering design of a 6000 m^3/day seawater hybrid RO-ED helio-desalting plant
A.A. Husseiny and H.L. Hamester 39(1981)171-172

Water from fossil aquifers as a potential supply source for solar desalination plants on a regional scale
A. Issar and G. Oron 40(1982)25-32

World's first solar powered reverse osmosis desalination plant
W.W. Boesch 41(1982)233-237

Operation experience with solar powered 10 m^3 per day MSF-plant in Kuwait and results of upscaling experiments
R. Kriesi and M. Posnansky 45(1983)371

Abu Dhabi solar distillation plant
A. M. El-Nashar and K. Ishii 52(1985)217-234

New aspects in solar powered seawater distillation
B. A. Crul and P. R. Bom 55(1985)55-68

Evaluation of solar powered desalination process
I.S. Al-Mutaz and M.I. Al-Ahmed 73(1989)181-190

Solar desalination with a high efficiency multi effect process offers new facilities
A. Böhner 73(1989)197-203

Performance and reliability of a solar desalination plant during a five-year operating period
A.M. El-Nashar and A.A. Qamhiyeh 82(1991)165-174

Solar desalination plant contra CO_2 emission
J.H. Graef 82(1991)187-196

Performance analysis of a solar desalting unit in South Tunisia
M.T. Chaibi, M.J. Safi and M. Hsairi 82(1991)197-205

An optimal design of a solar desalination plant
A.M. El-Nashar 93(1993)597-614

Operational problems in the solar desalination plant and its remedies
M. Abdus Samad 93(1993)615-624

System design optimization of a solar desalination plant using a multi-effect stack type distillation unit
A.M. El-Nashar 97(1994)587-618

Solar distillation

Solar distillers for use on coral islands
E.D. Howe and B.W. Tleimat 2(1967)109-115

Construction principles of large stills. Solution adopted for large solar stills of the greenhouse type *(in French)*
C. Gomella 4(1968)61-65

Current developments in the research concerning the intervention of man in solar distillation on a meteorological scale to obtain fresh water from sea water in arid and tropical zones *(in French)*
J.R. Vaillant 4(1968)258-263

The construction and installation of solar stills in Australia
R.N. Morse 5(1968)82-89

Solar distillation in Chile
J.R. Hirschmann 17(1975)17-30

Utilization of waste hot water for distillation
M.S. Sodha, A. Kumar and G.N. Tiwari 37(1981)325-341

Solar distillation: The solar-driven case
J.P. Gerofi, G.G. Fenton and E. Mannik 39(1981)83-94

Comparison of solar RO and solar thermal desalination systems
J.P. Gerofi and G.G. Fenton 39(1981)95-107

Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller
J.C. Deronzier, F. Lauro and R. Ployart 39(1981)117-123

Optimal water cost from solar-powered multieffect distillation
B.W. Tleimat 44(1983)153-165

Recent solar distillation developments
A. Delyannis and E. Delyannis 45(1983)361-369

Transient performance of a single basin solar still with water flowing over the glass cover
G.N. Tiwari and V.S.V. Bapeshwara Rao 49(1984)231-241

Economic of solar stills
E. E. Delyannis and A. Delyannis 52(1985)167-176

Seawater distillation by solar energy
A.M. El-Nashar and A.M. El-Baghdadi 61(1987)49-66

A hardy, high-yield solar distiller of brackish water
R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff 67(1987)43-52

Laboratory test of solar distillator with a heat penetrating plate having a bend
S. Toyama, M. Nakamura, H.M. Salah, S. Futamura and K. Murase 67(1987)67-73

A new process for the extraction of water from air
Y. Alayli, N.E. Hadji and J. Leblond 67(1987)227-229

Operational experience with solar stills in an Indian village and their contribution to the drinking water supply
S. D. Gomkale 69(1988)177-182

Nocturnal water production by tubular solar stills using waste heat to preheat brine
G.N. Tiwari and A. Kumar 69(1988)309-318

Prospective of two small water producing units
A.A. Madani and G.M. Zaki 73(1989)167-180

Transient performance of a high temperature solar distillation system
Y.P. Yadav 82(1991)243

Transient performance of a high temperature solar distillation system
Y.P. Yadav 91(1993)145-153

Experimental and theoretical study of a humidification-dehumidification desalting system
M.A. Younis, M.A. Darwish and F. Juwayhel 94(1993)11-24

Solar distillation treatment of landfill leachate. A case study in Greece
K.L. Katsifarakis 94(1993)213-221

Thermo-hydraulic simulation of a solar distillation system under pseudo steady-state conditions
K. Voropoulos, E. Delyannis and V. Belessiotis 107(1996)45-51

Water production from brines by membrane distillation
M.P. Godino, L. Peña, C. Rincón and J.I. Mengual 108(1996)91-97

Solar distillation, multi-stage flash

Solar operated, multiflash distillation
H.Z. Tabor 33(1980)221-224

Dynamic characteristics of a multistage thermal diffusion type solar distillator
S. Toyama, T. Aragaki, H. M. Salah and K. Murase 67(1987)21-32

Performance ratio, area economy and economic return for an integrated solar energy/multi-stage flash desalination plant
D. Singh and S.K. Sharma 73(1989)191-195

Solar distillation, multieffect

Simulation of a multieffect solar distillator
S. Toyama, T. Aragaki, K. Murase and K. Tsumura 45(1983)101-108

Construction of a solar desalination plant (40cum/day) for a French Caribbean Island
J. de Gunzbourg and T. Froment 67(1987)53-58

Economic aspects of low-temperature multi-effect desalination plants
Y.G. Caouris, E.T. Kantsos and N.G.Zagouras 71(1989)177-201

Engineering relations for economic production functions of solar low-temperature multi-effect desalination
N.G. Zagouras and E.T. Kantsos 78(1990)381-387

High performance of a simple design, two effect solar distillation unit
H.E.S. Fath 107(1996)223-227

Advanced MED solar desalination plants. Configurations, costs, future — Seven years of experience at the Platforma Solar de Almeria (Spain)
B. Milow and E. Zarza 108(1996)51-58

Solar distillation plants

Solar distillation plant at Awania, Gujarat, India
G.L. Natu, H.D. Goghari and S.D. Gomkale 31(1979)435-441

Solar distillation: The solar-assisted case
J.P. Gerofi and G.G. Fenton 36(1981)189-204

Measurements and control in solar distillation plants
E.D. Howe 59(1986)307-320

Technical and economical aspects of solar desalination with particular emphasis on solar pond powered distillation plants
M. Posnansky 67(1987)81-95

Desalination by solar heated membrane distillation
P.A. Hogan, Sudjito, A.G. Fane and G.L. Morrison 81(1991)81-90

Feasibility study of solar distillation plants in South Pacific countries
G.N. Tiwari 82(1991)233-241

Desalination with a reversible flashing process
N. Ninic, M. Novakovic, S. Dimitrijevic and S. Savovic 89(1993)263-273

Solar application in desalination: the Greek Islands experiment
E.-E. Delyannis and V. Belessiotis 100(1995)27-34

Solar electrodialysis

Application of solar energy to the solution of some problems of electrodialysis
R. Matz and E.M. Feist 2(1967)116-124

Water desalting by solar powered electrodialysis
J. E. Lundstrom 31(1979)469-488

Solar power/desalination, PV*ED system
G. Kvajic 39(1981)175

An electrodialysis sea water desalination system powered by photovoltaic cells
O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri 65(1987)161-169

Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert
M. R. Adiga, S. K. Adhikary, P. K. Narayanan, W. P. Harkare, S. D. Gomkale and K. P. Govindan 67(1987)59-66

Solar desalination as a means to provide Indian villages with drinking water
S. D. Gomkale 69(1988)171-176

Solar energy

An introduction to new energy sources for desalination
O.K. Buros 39(1981)37-41

Desalination and renewable energies: a few recent developments
J. J. Libert and A. Maurel 39(1981)363-372

Trends in the application of solar energy to water desalination
R. A. Brosh 40(1982)95-102

Solar energy as a source for production of power and desalinated water
A. Ophir and N. Nadav 40(1982)103-124

Analysis of a fuel-solar assisted central dual purpose plant
S.E. Aly 78(1990)363-379

Thermal evaluation of high temperature distillation under an active mode of operation
G.N. Tiwari and S.A. Lawrence 85(1992)135-145

The application of solar energy for large-scale seawater desalination
D. Hoffman 89(1992)115-184

Optimum conditions for a solar still and its use for a greenhouse using the nutrient film technique
S.M. El-Haggar and A.A. Awn 94(1993)55-68

Experimental and theoretical method for the determination of the daily output of a solar still: input-output method
V. Belessiotis, K. Voropoulos and E. Delyannis 100(1995)99-104

Potential uses of solar energy for seawater desalination
P. Glueckstern 101(1995)11-20

Utilization of a forced condensing technique in a moving film inclined solar desalination still
N.H.A. Rahim 101(1995)255-262

Solar energy: Some proposals for future development and application to desalination
V. Belessiotis and E. Delyannis 105(1996)151-158

Parametric study of an inverted absorber double-effect solar distillation system
S. Suneja, G.N. Tiwari and S.N. Rai 109(1997)177-186

Solar evaporation

Leakage of brine from solar evaporation ponds
S. Pancharatnam 11(1972)303-313

Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project
R. Manjarrez and M. Galván 31(1979)545-554

Some possibilities for solar evaporation intensification
I. Dobrevsky and M. Georgieva 45(1983)93-99

Zero-discharge direct-contact freezing/solar evaporator desalination complex
A.A. Madani 85(1992)179-195

Solar photovoltaic power

Water desalting by solar powered electrodialysis
J. E. Lundstrom 31(1979)469-488

Solar power/desalination, PV*ED system
G. Kvajic 39(1981)175

The Malta seawater reverse osmosis facility
W.T. Andrews, J.H. Sleigh and R.A. Bergman 46(1983)111

Optimized matching of solar photovoltaic power with reverse osmosis desalination
B.G. Keefer, R.D. Hembree and F.C. Schrack 54(1985)89-103

An electrodialysis sea water desalination system powered by photovoltaic cells
O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri 65(1987)161-169

Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert
M. R. Adiga, S. K. Adhikary, P. K. Narayanan, W. P. Harkare, S. D. Gomkale and K. P. Govindan 67(1987)59 -66

Solar ponds

Solar ponds as heat source for low-temperature multi-effect distillation plants
H. Tabor 17(1975)289-302

The use of solar ponds in the disposal of desalting concentrate
B. E. Smith 78(1990)59-70

Salt-gradient solar ponds from concentrated subsurface agricultural drainage waters of the San Joaquin Valley, California
D.W.J. Hayes and J.A.L. Kipps 88(1992)301-309

Overview of solar desalination
O.A. Hamed, E.I. Eisa and W.E. Abdalla 93(1993)563-579

Performance characteristics of a multi effect solar pond desalting system in an arid environment
O. Al-Hawaj and M.A. Darwish 96(1994)3-10

A solar pond assisted multi-effect desalting system
O. Al-Hawaj and M.A. Darwish 99(1994)119-135

The analysis and performance of large-scale stand-alone solar desalination plants
P.T. Tsilingiris 103(1995)249-255

Solar powered greenhouse

Design of a commercial solar-powered greenhouse
T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews 39(1981)53-62

Desalination and renewable energies: a few recent developments
J. J. Libert and A. Maurel 39(1981)363-372

Solar powered systems

Theoretical study of a solar powered absorption/MED combined system
K. Fathalah and S.E. Aly 82(1991)245-

Solar radiation measurement

Measurements and control in solar distillation plants
E.D. Howe 59(1986)307-320

Solar, reverse osmosis

Desalination using new energy sources *(in French)*
A. Maurel 31(1979)489-499

Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects
G. Petersen, S. Fries, J. Mohn and A. Müller 31(1979)501-509

Comparison of solar RO and solar thermal desalination systems
J.P. Gerofi and G.G. Fenton 39(1981)95-107

Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience
G. Petersen, S. Fries, J. Mohn and A. Müller 39(1981)125-135

Desalination and renewable energies: a few recent developments
J. J. Libert and A. Maurel 39(1981)363-372

Solar, seawater desalination

Seawater distillation by solar energy
A.M. El-Nashar and A.M. El-Baghdadi 61(1987)49-66

A simple analysis of solar desalination of seawater
P. Gandhidasan and H.I. Abualhamayel 99(1994)137-147

Solar stills

The design of a prefabricated solar still for the island of Aldabra
A. Porteous 8(1970)93-98

Development of a marine osmotic solar still for sea water desalination
R. Knighton 39(1981)173

Performance of solar still with intermittent flow of waste hot water in the basin
Madhuri and G. N. Tiwari 52(1985)345-357

Comparison of various designs of solar stills
G.N. Tiwari, K. Mukherjee, K. Ashok and Y.P. Yadav 60(1986)191-202

Effect of water depth on daily yield of the still
G.N. Tiwari and Madhuri
61(1987)67-75

Monthly comparative performance of solar stills of various designs
Y. P. Yadav and G. N. Tiwari
67(1987)565-578

Transient analysis of a spherical solar still
N.K. Dhiman 69(1988)47-55

Transient analysis of a spherical solar still
N.K. Dhiman 69(1988)47-55

Nocturnal water production by tubular solar stills using waste heat to preheat brine
G.N. Tiwari and A. Kumar
69(1988)309-318

Transient analysis of double-basin solar still integrated with collector
Y.P. Yadav 71(1989)151-164

Multieffect solar still for agricultural purposes in hot climate
M.S. Hassan, S. Toyama, K. Murase and M.A. Wahhab 71(1989)347-353

Development and application of a roof type solar still
K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
73(1989)111-118

Prospective of two small water producing units
A.A. Madani and G.M. Zaki
73(1989)167-180

Evaluation of optimum thickness of bottom insulation for a conventional solar still
N.K. Dhiman 78(1990)201-208

Development of a rugged design of a high efficiency multi-stage solar still
P. Le Goff, J. Le Goff and M. Razak Jeday 82(1991)153-163

Solar still performance
A.Y. Maalej 82(1991)207-219

Thermal efficiency of double slope FRP solar distiller: An analytical and experimental studies
G.N. Tiwari and A.K. Singh
82(1991)223-232

Performance analysis of a solar still coupled to a heat exchanger
Y.P. Yadav 82(1991)244

Surface evaporation in liquid flowing down an inclined groove
S. Toyama, K. Murase, S. Kimura and M. Nakamura 82(1991)387-397

Thermal evaluation of high temperature distillation under an active mode of operation
G.N. Tiwari and S.A. Lawrence
85(1992)135-145

Photochemically assisted solar desalination of saline water
M.A. Al-Abbasi, A.A. Al-Karaghouli and A.N. Minasian 86(1992)317-324

Transient simulation studies on a multi-stage stacked tray solar still
R.S. Adhikari and A. Kumar
91(1993)1-20

Performance analysis of a solar still coupled to a heat exchanger
Y.P. Yadav 91(1993)135-144

Overview of solar desalination
O.A. Hamed, E.I. Eisa and W.E. Abdalla 93(1993)563-579

Solar desalination in Sudan
S.S. Ali 93(1993)581-585

A simple analysis of solar desalination of seawater
P. Gandhidasan and H.I. Abualhamayel 99(1994)137-147

A compact solar still utilizing hydrophobic poly(tetrafluoroethylene) nets for separating neighboring wicks
K. Ohshiro, T. Nosoko and T. Nagata
105(1996)207-217

Water requirements and remote arid areas: The need for small-scale desalination
J. Ayoub and R. Alward
107(1996)131-147

Enhanced solar still performance using water film cooling of the glass cover
B.A.K. Abu-Hijleh 107(1996)235-244

Parametric study of an inverted absorber double-effect solar distillation system
S. Suneja, G.N. Tiwari and S.N. Rai
109(1997)177-186

Solar water production

Cost-effectiveness of solar water production
R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari
71(1989)165-175

Solid waste burning

Feasibility prediction of potable water production using waste heat from refuse incinerator hooked up at Stirling cycling machine
S. Abdalla and S.H. Yacoub
64(1987)491-500

Solid-liquid equilibria

Solid-liquid equilibria in concentrated aqueous salt solutions — Systems with a common ion
R. Vega and E.W. Funk
15(1974)225-241

Solid-liquid separation

Coliphage rejection under ultramembrane filtration
K. Kawamura, K. Nishimura and Y. Magara 106(1996)89-97

Solids removal, from liquid stream

Newer applications for crossflow membrane filtration
J.L. Short 70(1988)341-352

Solubility parameter

Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone
C. Friedrich, A. Driancourt, C. Noël and L. Monnerie 36(1981)39-62

Solubility parameters

Hyperfiltration of nonelectrolytes: Dependence of rejection on solubility parameters
H.G. Spencer 28(1979)117-124

Solubility product values

Dissociation constants of certain scale forming salts
O.I. Martynova, L.G. Vasina and S.A. Pozdniakova 15(1974)259-265

Solute - membrane interactions

Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
W. Pusch, Y.-L. Yu and L.-Y. Zheng 75(1989)3-14

Study on interactions between PBIL membranes and organic solutes
Ji Jiang and Chen Jiayan 78(1990)389-396

Solute recovery

Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials
M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi 38(1981)449-460

An integrated self sufficient multipurpose plant for seawater desalination
K. Kuenstle and G. Brunner 39(1981)459-474

Solute rejection

Relationships between concentration, solute mass and membrane rejection
M. Weintraub and S. Loeb 17(1975)131-135

Studies on the treatment of gold plating rinse by reverse osmosis
C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami 27(1978)261-272

Hyperfiltration of nonelectrolytes: Dependence of rejection on solubility parameters
H.G. Spencer 28(1979)117-124

Solute retention

Thermodynamics of ternary systems in reverse osmosis
M.W. Vonk and J.A.M. Smit 48(1983)105-119

The influence of membrane heterogeneity on the solute retention
J. van Daalen and J.A.M. Smit 52(1985)235-247

Solute - solute interactions

Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
W. Pusch, Y.-L. Yu and L.-Y. Zheng 75(1989)3-14

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Solute-membrane interactions

Concentration polarization and solute membrane interactions affecting pressure driven membrane processes
E. Drioli and F. Bellucci 26(1978)17-36

Solutes

Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler 34(1980)25-34

Two-phase ultrafiltration as an economical unit operation for recycling of detergents
H. Paul 47(1983)293-304

Solutes, organic

The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes
G. Jonsson and C.E. Boesen 24(1978)17-18

Methods for determining the selectivity of reverse osmosis membranes
G. Jonsson 24(1978)19-37

Application of regular solution theory to organic solute rejection by reverse osmosis
Y. Kurokawa, T. Tsuchiya and N. Yui 29(1979)233-238

Study on interactions between PBIL membranes and organic solutes
Ji Jiang and Chen Jiayan 78(1990)389-396

Solutes permeability

Analysis of reverse osmosis membrane behaviors in a long-term verification test
S. Kimura 100(1995)77-84

Solution thermodynamics

The investigation of solution thermodynamics for the polysulfone—DMAC—water system
Li Shuguang, Jiang Chengzhang and Zhang Yuanqi 62(1987)79-88

Solution-gel-solid system transition

Effect of the solution-gel-solid system transition on the properties of microfiltration membranes
N.P. Leksovskaia, Z.Y. Chereisky, I.G. Ruban and O.I. Nachinkin 86(1992)91-100

Solutions, high osmotic pressure

Countercurrent flow osmotic processes for the production of solutions having a high osmotic pressure
S. Loeb and M.R. Bloch 13(1973)207-215

Solvent evaporation

On the relationship between permselective membranes porosity and evaporation rate of the casting solutions
A. Franceschini, G. Fidilio and G. Actis 26(1978)37-44

Optimal conditions for obtaining polymeric membranes in binary systems: a numerical analysis
C. Castellari and S. Ottani 49(1984)141-152

Synthesis and evaluation of poly(*m*-phenylene isophthalamide) as a reverse osmosis membrane
S.V. Joshi and A.V. Rao 78(1990)355-362

Solvent extraction desalination

Solvent extraction desalination pilot plant
R.R. Davison, W.B. Harris and W.H. Smith, Jr. 3(1967)17-26

Solvent resistant membranes

Solvent resistant membranes from poly(*p* -phenylene-terephthalamide)
P. Zschocke and H. Strathmann
34(1980)69-75

Sorbed acid

Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid
G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach
80(1991)193-209

Sorption

Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone
D. Düputell, E. Staude and D. Wyszynski 95(1994)75-89

Sorption experiment

Separation of dichloroethane-trichloroethylene mixtures by means of a membrane pervaporation process
Jin Sheng 80(1991)85-95

Sorption isotherms

Interaction between water and polytrans-2,5-dimethylpiperazin thiofurazanamide films
M. Pegoraro and A. Penati
48(1983)189-205

Soymilk treatment

High rate ultrafiltration of soymilk
S.E. Berry and M.H. Nguyen
70(1988)169-176

Space station

The proposal for the completely closed system in the Columbus Space Station
R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot 83(1991)123-136

Spacer drag

Velocity profile caused by a high porosity spacer between parallel plates (membranes)
W.W. Focke and P.G.J.M. Nuijens
49(1984)243-253

Spacer screens

An experimental study of electrodialysis hydrodynamics
G. Belfort and G.A. Guter
10(1972)221-262

Spacer structures

Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer
O. Kuroda, S. Takahashi and M. Nomura 46(1983)225-232

Spacers

An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh
A. Solan, Y. Winograd and U. Katz
9(1971)89-95

A consideration on flow distribution in an ion exchange compartment with spacer
H. Miyoshi, T. Fukumoto and T. Kataoka 42(1982)47-55

Effect of characterizations of spacer in electrodialysis cells on mass transfer
X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li 46(1983)243-252

Spiegler-Kedem model

Estimation of mass transfer coefficient using a combined nonlinear membrane transport and film theory model
Z.V.P. Murthy and S.K. Gupta
109(1997)39-49

Spinning techniques

An experimental approach to the preparation of hollow fiber membranes
R. McKinney, Jr. 62(1987)37-47

Sponge ball cleaning

Advanced reverse osmosis process with automatic sponge ball cleaning for the reclamation of municipal sewage
C. Yanagi and K. Mori
32(1980)391-398

Energy consumption and operational aspects of on load ball cleaning systems
K. Eimer 38(1981)201

Treatment of highly fouling waste waters with tubular membrane systems
S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru 49(1984)347-355

Optimization of sponge ball cleaning system operation and design in MSF plants
F. Al-Bakeri and H. El Hares
92(1993)353-375

Experimental optimization of sponge ball cleaning system operation in Umm Al Nar MSF desalination plants
F. Al-Bakeri and H. El-Hares
94(1993)133-150

Spray flash evaporation

An experimental study of spray flash evaporation
O. Miyatake, T. Tomimura, Y. Ide and T. Fujii 36(1981)113-128

Effect of liquid temperature on spray flash evaporation
O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii 37(1981)351-366

Effect of liquid temperature on spray flash evaporation
O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii 37(1981)351-366

Investigation of performance characteristics in jet-sprayed desalination plants
V.N. Slesarenko and V.M. Stchetinin
56(1985)431-437

Condition particularities of a jet-impact spraying desalination plant
V. Slesarenko 105(1996)185-190

Spray freezer

Spray freezer and pressurized counterwasher for freeze desalination
W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone 14(1974)249-262

Spray-nozzle distribution

An update on the mass transfer of counterflow, packed deaerators containing pall-ring packing
T.J. Rabas, S. Inoue and A. Shimizu
66(1987)91-107

Stability

Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VI. Effect of copolymer composition on the stability of poly(acrylic acid-covinyl acetate) and poly(acrylic acid-covinyl alcohol) membranes
A.J. Van Reenen and R.D. Sanderson
72(1989)329-338

Stack emissions

Jeddah stack emissions problems and solutions
A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch 73(1989)459-470

Stage efficiency

Theoretical approach to MSF stages efficiency calculation
G. Migliorini, B. Fumagalli and S. Arazzini 55(1985)185-198

Stage venting system

Improvement in distiller production and performance ratio after modification of the stage venting system
I.D. McGregor and H. Moore
93(1993)159-169

Stage-by-stage algorithm non-linear equations

Solving equations simulating the steady-state behavior of the multi-stage flash desalination process
H. El-Dessouky and S. Bingulac
107(1996)171-193

Stainless steel

Experience with a high molybdenum stainless steel in saline environments
J. Olsson and B. Wallen
44(1983)241-254

A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C
T. Hodgkiess and S. Rigas
44(1983)283-294

Experiences with a highly alloyed stainless steel in desalination plants and other Arabian Gulf industrial plants
J. Olsson and M.L. Erbing
73(1989)267-275

Assessment of lower-alloy stainless steels for use in desalination plant
T. Hodgkiess and P.S. Chia
84(1991)267-278

Stainless steel electrodes

Electrode for electrodialysis
Jingxu Qu and Shumin Liu
46(1983)233-242

Stainless steel evaporators

Evaporators made of solid duplex staintess steel. A new approach to reduced costs
J.O. Olsson and H.L. Groth
97(1994)67-76

Stainless steels

Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics
K.R. Fröhner 21(1977)147-164

Corrosion of welds in seawater
T. Hodgkiess, N. Eid and W.T. Hanbury 27(1978)129-136

Corrosion considerations in selecting metals for flash chambers
J. W. Oldfield and B. Todd
31(1979)365-383

Corrosion of welded samples in seawater
T. Hodgkiess, W. T. Hanbury, M. Arndt and N. Eid 31(1979)399-410

In situ corrosion study of stainless steels in an MSF desalting plant
S. Nordin 38(1981)151-

Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater
T. Hodgkiess and A. Asimakopoulos
38(1981)247-256

Corrosion problems caused by bromine formation in additive dosed MSF desalination plants
W.S.W. Lee, J.-W. Oldfield and B. Todd 44(1983)209-221

Corrosion tests of a range of materials in three MSF plants
T. Hodgkiess, W. T. Hanbury and M. H. Hejazian 44(1983)223-232

Experience with a high molybdenum stainless steel in saline environments
J. Olsson and B. Wallen
44(1983)241-254

Studies on stainless steels for service in desalination plants
S. Nordin 44(1983)255-263

A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C
T. Hodgkiess and S. Rigas
44(1983)283-294

Corrosion resistance of stainless steels and nickel alloys in artificial sea water
M. Pötzschke and M.B. Rockel
44(1983)295-305

Oxide film thickening on some molybdenum-containing stainless steels used in desalination plants
A. M. Shams El Din and N. J. Paul
69(1988)251-260

Effect of residual and minor constituents on the corrosion behaviour of some technically important alloys
A.M. Shams El Din 93(1993)487-498

Corrosion behavior of some highly alloyed stainless steels in seawater
A.U. Malik, N.A. Siddiqi and I.N. Andijani 97(1994)189-197

Localized corrosion of AISI 316L S.S in Arabian Gulf seawater
A.U. Malik and S.A. Al-Fozan
97(1994)199-212

Stainless steel for high pressure piping in SWRO plants. Are there any options?
J. Nordström and J. Olsson
97(1994)213-220

Standard modules

The standard module philosophy for multi stage flash/fluidized bed evaporation: a new approach in desalination
D.G. Klaren and N. Halberg
31(1979)233-240

Starch

Treatment of paper coating colour effluents by membrane filtration
A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström
105(1996)263-276

Start-up characteristics

Analysis of start-up characteristics of commercial MSF plant
K. Yokoyama, Y. Ikenaga, S. Inoue and T. Yamamoto 22(1977)395-401

Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia
F. Fioravanti, D. Falleni, G. Odone and A. De Maio 31(1979)155-158

Static mixers

Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids
J. Hiddink, D. Kloosterboer and S. Bruin 35(1980)149-167

Statistical thermodynamics

The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence)
Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu 85(1992)297-320

Statistically designed experiments

An investigation of using statistically designed experiments and a computer model
A.M. El-Nashar and J.S. Shih 38(1981)397

Steady-state electrodialysis

Fouling in steady and unsteady state electrodialysis
D.W. Thompson and A.-Y. Tremblay 47(1983)181-188

The performance of cyclic and steady-state electrodialysis separation processes in the presence of iron (II) fouling
D.W. Thompson and A.Y. Tremblay 48(1983)121-132

Steady-state filtrate flux

A mathematical model of steady-state cross-flow microfiltration in a woven hose support
J. W. Hunt, K. Treffry-Goatley, R. L. C. Flemmer, J. D. Raal and C. A. Buckley 61(1987)187-200

Steady-state process

Modeling multistage flash desalination plants
M. Rosso, A. Beltramini, M. Mazzotti and M. Morbidelli 108(1996)365-374

Steam chamber height

Entrainment-tests on VIFE
K.G. Plassmeier 38(1981)153154

Steam control

Control in multiple effect evaporator plants
F.C. Standiford 59(1986)263-292

Steam pollution

Investigation of water steam drop condensation conditions
L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova 2(1967)337-344

Steam purity

The effect of a magnetic field on steam purity
M. Yovchev 11(1972)379-384

Steam separation

On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types
S. I. Golub, V. V. Iljushchenko, S. V. Grigorenko, U. V. Kartowsky and N. K. Tokmantsev 44(1983)137-142

Steam turbine

Computer-based performance evaluation of dual-purpose steam turbine/multistage flash desalination plants
F.G. Abbosh and I. Kamal 66(1987)127-140

Energy consumptions and costs with a multi-stage flashing (MSF) desalting system
M.A. Darwish, F.A. Yousef and N.M. Al-Najem 109(1997)285-302

Steam turbine cogeneration systems

The efficient production of electricity and water in cogeneration systems
S.K. Tadros 38(1981)99-108

Steam turbine, low pressure

The Curacao KAE-LT-MED and auxiliary steam turbine project: a model for dual purpose MSF plants replacement
A. Ophir and S. Manor 66(1987)33-42

Steam turbine plants

Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study
A. M. El-Nashar and A. El-Baghdady 49(1984)271-292

Steam turbines

Optimal selection of major equipment in dual purpose plants
E. Gabbrielli 36(1981)1-23

On the thermodynamics of dual purpose power desalting plants. Part I. Using steam turbines
M.A. Darwish 64(1987)151-167

Vacuum desalination using waste heat from a steam turbine
S.C. Low and J.H. Tay 81(1991)321-331

Steam washing process

The quality of the distillate of desalination plants with a washing device
L.S. Sterman, V.M. Lavigin and V.D. Rojnatovsky 45(1983)253-261

Steel

Some results of the investigations on corrosion protection of desalination plant equipment
A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko 44(1983)233-239

Localized corrosion at welds in structural steel under desalination plant conditions Part I: Effect of surface roughness and type of welding electrode
N.M.A. Eid 73(1989)397-406

Localized corrosion at welds in structural steel under desalination plant conditions. Part II: Effect of heat treatment, test temperature and test media
N.M.A. Eid 73(1989)407-415

Hydrogen absorption and its prevention of titanium in a simulated descaling environment in a desalination plant
H. Satoh 97(1994)45-51

Steel alloys

The effect of molybdenum on the corrosion behaviour of some steel alloys
M.I. Hazza and M.E. El-Dahshan 95(1994)199-209

The effect of molybdenum on the corrosion behaviour of steel alloy in sea water
A. Al-Arifi, M.E. El-Dahshan and M.I. Hazzaa 97(1994)77-86

Steel corrosion

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with some reducing agents at various temperatures
M. Iovchev and I. Bankovska 42(1982)221-228

Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with calcium, magnesium and ferrous ions at various temperatures
M. Iovchev 52(1985)285-293

Inhibition of the corrosion of steel pipes carrying potable water. II. Optimization of Ca^{2+} and HCO_3^- content in the presence of phosphate inhibitors
T.M.H. Saber and A.H. Salem 93(1993)461-471

Steel industry

Integration of MSF desalination plants into large steel works complexes in coastal regions
G. Scheffler and J. Lammers 23(1977)433-447

MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry
R. Rautenbach, P. Monheim and D. Zebrowski 31(1979)197-206

Stepped GRP shells

Behavior of stepped GRP shells used in the reverse osmosis permeators for the water desalination process
N.M.S. Al-Bastaki 94(1994)307-319

Sterilization equipment

New improvements in ultraviolet sterilization of desalted and reuse water
J.E. Cruver and M. Jhawar 32(1980)365-371

Stevioside preparation

Study of stevioside preparation by membrane separation process
Liu Yurong, Chen Yiming, Wang Lining and Jiang Jianhua 83(1991)375-382

Stirling engine

Feasibility prediction of potable water production using waste heat from refuse incinerator hooked up at Stirling cycling machine
S. Abdalla and S.H. Yacoub 64(1987)491500

Stirred tank reactor

The kinetics of methyl bromide hydrate formation
J.B. Pangborn and A.J. Barduhn 8(1970)35-68

The rate of formation of the hydrates of F-31 (CH_2ClF) and F-142b (CH_3CClF_2) in a stirred tank reactor
A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern 18(1976)59-69

Stirring

Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water
H.I. Al-Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din 109(1997)25-37

Stormwater

Reuse of collected stormwater runoff for irrigation in Kuwait
B.A. Al-Hoti and R. Abdullah 75(1989)329-340

Conjunctive wetland treatment/aquifer storage and recovery at Regent Gardens residential development, Northfield, South Australia
A.J. Emmett, S. Clarke and S. Howles 106(1996)407-410

Straight-edged grooved tubes

Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes
D. Moalem-Maron, R. Semiat and S. Sideman 34(1980)289-309

Straight-edged grooves

Transfer characteristics of convex and concave rivulet flow on inclined surfaces with straight-edged grooves
R. Semiat, D. Moalem-Maron and S. Sideman 34(1980)267-287

Strategy selection

Supply of desalted water to remote arid zones
A. F. Abdul-Fattah 60(1986)151-164

Stratified fluid stability

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to horizontal flows
D. Pnueli and Y. Zvirin 33(1980)163-183

Stratified fluids

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows
M. Bouscher, D. Pnueli and Y. Zvirin 36(1981)307-333

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
M. Bouscher, P. Pnueli and Y. Zvirin 49(1984)17-36

Streaming potential

Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer
M. Elimelech, W.H. Chen and J.J. Waypa 95(1994)269-286

Streaming potentials

On the measurement of streaming potentials with silver-silver chloride electrodes
K.S. Spiegler 15(1974)135, Err. 16(1975)260

Stress corrosion

Stress corrosion of austenitic stainless steels in chloride environments *(in French)*
S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
3(1967)118-124

Stress corrosion cracking of copper-nickel alloys in sulphide polluted natural seawater at moderate temperatures
K. Habib and A. Husain
97(1994)29-34

Strong-acid cation exchangers

Characteristics of strong-acid cation exchangers. 1. Optimization of regeneration
C. A. Sauer 51(1984)313-324

Strontium sulphate

High recovery reverse osmosis with strontium sulfate in a brackish well water source
G. Milton and D.H. Furukawa
22(1977)335-343

Structural polarization

The structural polarization in some ion exchange membranes during continued transfer of direct current
C. Forgacs 7(1969)111-121

Structure/performance relationships

Structure/performance relationships of high-temperature MSF scale control additives
S.W. Walinsky, B. J. Morton and J.J. O'Neill 38(1981)203

The structure of reverse osmosis hollow fiber membrane of cellulose triacetate (CTA)
Si Qing Lin 56(1985)395-403

Submarine desalination

Submarine units for reverse osmosis
B.C. Drude 2(1967)325-328

Low temperatures and dissolved gases: two problems in submarine sea water desalination
M. Hampe 34(1980)35-56

Suitability of reverse osmosis membranes for energy recovery by submarine osmotic power plants
F. Vigo and C. Uliana 60(1986)45-57

Suitability of reverse osmosis membranes for energy recovery by submarine osmotic power plants
F. Vigo and C. Uliana 60(1986)45-57

Submarine and underground reverse osmosis schemes for energy-efficient seawater desalination
M. Reali, M. de Gerloni and A. Sampaolo 109(1997)269-275

Submarine and underground reverse osmosis schemes for energy-efficient seawater desalination
M. Reali, M. de Gerloni and A. Sampaolo 109(1997)269-275

Submerged outfall system

Prediction of the diffusion of discharged brine by a simulation analytical method
A. Wada, N. Katano and T. Goto
22(1977)91-100

Problems on sea water intake and discharge facilities in coastal region
S. Iso 22(1977)159-168

Pollution problems in a distillation process
T. Goto and T. Hakuta
23(1977)245-253

The crossflow piston bed
H.F. Wiegandt, R.L. Von Berg and P.R. Patel 25(1978)303-324

Substitution coefficient

Methodology for estimating saving of primary energy with membrane operations in industrial processes
R. Molinari, R. Gagliardi and E. Drioli
100(1995)125-137

Substrate materials

Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VIII. Alternative substrate materials for dynamic membranes
A.J. Van Reenen, E.P. Jacobs and R.D. Sanderson 85(1992)263-274

Succinic acid

Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid
Q.T. Nguyen, Y. Jyline and J. Neel
36(1981)277-283

Sugar industry

Membrane technology in the sugar industry
G. Trägårdh and V. Gekas
69(1988)9-17

Sulfate analysis

Automated continuous monitoring of sulphate contents in brines
F. Sigon 47(1983)71-80

Sulfide

Pollution problems in a distillation process
T. Goto and T. Hakuta
23(1977)245-253

Sulfide or sulfite removal

A comparative study of common metals scavenging efficiency for aqueous sulfide or sulfite pollutants in salt solution
M.R. Reda and J.N. Alhajji
94(1994)273-288

Sulfite pulp evaporation drain

Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis
H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
25(1978)89-97

Sulfuric acid

The use of acid and additive. Practical experiences in a multistage flash plant
J. Stewart, R. Bom and M.A. Finan
31(1979)299-307

The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions
N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov
46(1983)197-201

Electric resistance of ion-exchange membranes in dilute solutions
K. Urano, Y. Masaki and M. Kawabata 58(1986)171-176

Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane
D. Raucq, G. Pourcelly and C. Gavach 91(1993)163-175

Electrochemical behavior of a high strength nickel-based alloy in H_2SO_4
K. Habib 93(1993)537-544

Acids and iron salts removal from rinsing water after metal etching
J. Wisniewski and G. Wisniewska 109(1997)187-193

Transport mechanism of sulphuric acid through an anion exchange membrane
Y. Lorrain, G. Pourcelly and C. Gavach 109(1997)231-239

Sulphate removal

Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants
A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli 16(1975)135-149

Sulphur dioxide removal

Reverse osmosis of wash waters from simultaneous SO_2/NO_x wet removal technique of flue gas
W. Thamm and E. Staude 61(1987)27-37

Sulphuric acid

The removal of sulphuric acid from natural and industrial waste waters
A.E. Simpson and C.A. Buckley 70(1988)431-442

Transfer of H_2SO_4, Na_2SO_4 and $ZNSO_4$ by dialysis through an anion exchange membrane
A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach 101(1995)39 -46

Superheating

Liquid superheat for vapour formation with and without presence of solid surface
M. Stefanovic and N. Afgan 10(1972)17-26

Liquid superheat for vapour formation with and without presence of solid surface
M. Stefanovic and N. Afgan 10(1972)17-26

Supersaturation

The problem of alkaline scale formation from a study on Arabian Gulf water
A.M. Shams El Din and R.A. Mohammed 71(1989)313-324

Support tubes

Optimal perforation spacing in reverse osmosis support tubes
Y. Winograd and A. Solan 8(1970)237-241

Supported liquid membranes

Separation techniques with supported liquid membranes
G. Schulz 68(1988)191-202

Surface evaporation

Surface evaporation in liquid flowing down an inclined groove
S. Toyama, K. Murase, S. Kimura and M. Nakamura 82(1991)387-397

Surface freezer

Desalination by the improved vacuum freezing high pressure ice melting process
Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins 42(1982)141-151

Surface phenomenon

Condensation of steam in a channel flow in the presence of noncondensable gases with surface resistance
A. Tamir and Y. Taitel 8(1970)293-309

A surface phenomenon occurring during the preparation of cellulose acetate reverse osmosis membranes
R. Matz 12(1973)273-275

Wettability and break-up of thin films on inclined surfaces with continuous and intermittent feed
D. Moalem-Maron, G. Ingel and N. Brauner 42(1982)87-96

Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface
Y. Taketani, T. Matsuura and S. Sourirajan 46(1983)455-466

Characteristics and performance of new types of ultrafiltration membranes with chemically modified surfaces
F. F. Stengaard 70(1988)207-224

Chemical treatment for improved performance of reverse osmosis membranes
D. Mukherjee, A. Kulkarni and W.N. Gill 104(1996)239-249

Surface water

The conjunctive use of desalination and conventional surface water resources
P.A. Mawer and M.J. Burley 4(1968)141-157

Optimum conjunctive use of a dual-purpose desalting plant and a surface water reservoir
F. Mobasheri and R. Harboe 9(1971)141-153

Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants
R.B. Hodgdon, E. Witt and S.S. Alexander 13(1973)105-127

Controlling biological activity in a surface water reverse osmosis plant
G.E. Bettinger 38(1981)419-424

Reverse osmosis for treatment of surface water
J.C. Schippers, H.C. Folmer, J. Verdouw and H.J. Scheerman 56(1985)109-119

Conventional pretreatment of surface seawater for reverse osmosis application, state of the art
A.Y. Al-Borno and M. Abdel-Jawad 74(1989)3-36

Surface water discharge of reverse osmosis concentrates
P.J. Malaxos and O.J. Morin 78(1990)27-40

Selection, design and procurement of a demineralization system for a surface water treatment plant
J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis 88(1992)3-31

Treatment of surface water rich in humus — Membrane filtration vs. conventional treatment
B. Ericsson and G. Trägårdh 108(1996)117-128

Surfactant additives

Upflow vertical tube evaporation of sea water with interface enhancement: Process development by pilot plant testing
H.H. Sephton 16(1975)1-13

Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant
H.L. Fong, C.J. King and H.H. Sephton 16(1975)15-38

Removal of surfactants and particulate matter from sea water desalination blowdown brines by foam fractionation
E. Valdes-Krieg, C. J. King and H. H. Sephton 16(1975)39-53

Surfactant micelles

Removal of volatile organic compounds by ultrafiltration
R. Singh 104(1996)203-214

Surfactant pretreatment

Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C.
Z. Pelled 1(1966)101-106

The effect of surfactant pretreatment on the ultrafiltration of proteins
A.G. Fane, C.J.D. Fell and K.J. Kim 53(1985)37-55

Surfactant solutions

Hyperfiltration of surfactants containing solutions from the plating industry
E. Staude, W. Assenmacher and H. Hoffmann 49(1984)321-333

Surfactants

Effects of surfactants on the hyperfiltration performance of dynamic membranes
R.J. Luppino and H.G. Spencer 41(1982)33-45

The influence of degreasing agents used at car washes on the performance of ultrafiltration membranes
C. Jönsson and A.-S. Jönsson 100(1995)115-123

Suspended matter

Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis
T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino 32(1980)93-101

Suspended sand

The concentration of suspensions by means of crossflow-microfiltration
K. Schneider and W. Klein 41(1982)263-275

Comments on erosion-corrosion of copper alloy C72200 in seawater containing suspended sand
C.J. Gaffoglio 42(1982)345-349

Sweeping-air

Diluted brine concentration process using membrane pervaporation technique: Laboratory scale studies
Jin Sheng and M.S. Lefebvre 91(1993)253-263

Swelling

Effect of crystallinity and swelling on the permeability and selectivity of polymer membranes
J.G.A. Bitter 51(1984)19-35

Symbols and units

Terminology for membrane distillation
K. Smolders and A.C.M. Franken 72(1989)249-262

Symmetric membranes

The formation mechanism of phase inversion membranes
H. Strathmann and K. Kock 21(1977)241-255

Symposium review

Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C.
Z. Pelled and J. Gaussens 1(1966)5-12

Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C.
Z. Pelled and J. Gaussens 1(1966)5-12

Review of membrane processes for industry symposium, Birmingham, Alabama, May 19-20, 1966
M.S. Mintz 1(1966)205-209

Athens: 1967. Review of the second European Symposium on fresh water from the sea, May 9-12, Alllells, Greece
D. Hasson 2(1967)5-12

Membrane symposium, Paris, February 1-3, 1967
K.S. Spiegler 2(1967)130-133

Nuclear desalination. Symposium held in London, October 30, 1967
P.A. Trevalion 3(1967)392-395

Review of the first conference on water desalination in India, held November 16-18, 1967 at the Central Salt and Marine Chemicals Research Institute, Bhavnagar
S.D. Gomkale 4(1968)131-134

Puraqua — United States exhibition and international conference on water purification and desalination, Rome, 17th to 23rd February, 1969
G. Levite 7(1969)1-15

Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973
K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood 14(1974)379-388

Second international congress on marine pollution and waste discharge into the sea
E. Rolle 15(1974)141-142

Second Tübinger Symposium on synthetic membranes in science and industry
E. Bayer and H. Strathmann 34(1980)1-2

OWRT Symposium on Membrane Processes, held at Wrightsville Beach, Nurlll Carolina, November 17-19, 1980
H. K. Lonsdale 34(1980)329-332

Water, the essence of life. An international congress on desalination and water reuse
O.K. Buros 41(1982)121-125

Synthetic aperture radar systems

The capability of SAR systems for iceberg detection and characterization
R. Rawson, R. Larson, R. Shuchman and R. Worsfold 29(1979)109-133

Synthetic membranes

Second Tübinger Symposium on synthetic membranes in science and industry
E. Bayer and H. Strathmann
34(1980)1-2

Synthetic membranes: State of the art
W. Pusch and A. Walch 35(1980)5-20

Interfacial phenomena — Bioadhesion and biocompatibility
K. Larsson 35(1980)105-114

Preparation and structure of synthetic membranes
A. Walch 46(1983)303-312

4th Tübingen Symposium on Synthetic Membranes in Science and Industry
H. Strathmann 51(1984)1-2

Efficiency of synthetic membranes in comparison with biological membranes
W. Pusch 62(1987)5-18

Performance of RO membranes in correlation with membrane structure, transport mechanisms of matter and module design (fouling). State of the art
W. Pusch 77(1990)35-54

System analysis

Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis
L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
4(1968)336-360

Reverse osmosis in multicomponent systems
S. Srinivasan and C.Tien
5(1968)139-158

Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization
L. T. Fan, C. L. Hwang, N. C. Pereira, L. E. Erickson and C. Y. Cheng
11(1972)217-238

Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis
L.E. Stamets, L.T. Fan and C.L. Hwang 11(1972)239-254

Systems analysis of a multi-stage tubular module reverse osmosis plant for sea water desalination
J.W. McCutchan and V. Goel
14(1974)57-76

Application of system analysis in two-stage reverse osmosis process design for water desalination
H. Ohya, S. Kasahara and S. Sourirajan 16(1975)375-393

Critical analysis of a proposed solar assisted HTE desalination system
G.G. Fenton and J.P. Gerofi
33(1980)211-219

System options and costs in dairy ultrafiltration
P. Dejmek and H. Engwall
35(1980)397-400

System description

Desalination cost savings of VARI-RO™ pumping technology
W.D. Childs and A.E. Dabiri
87(1992)109-135

Electrochemical characterization of charged membranes and membrane systems
K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul
104(1996)19-26

System design

The Riyadh water transmission system (RWTS)
I. M. R. Jamjoom, P. Laesser and A. H. Feizlmayr 39(1981)241-254

Design features of seawater intake, distribution and outfall systems, applied to the Ruwais Utilities Complex, Abu Dhabi
R. El-Assar, G. Jung and G. Gerrard
45(1983)115-118

Measurements and control in reverse osmosis desalination
A.B. Mindler and A.C. Epstein
59(1986)343-379

System design model

Modelling of modules and systems in reverse osmosis. Part I: Theoretical system design model development
M.L. Costa and J.M. Dickson
80(1991)251-274

System performance

Thermo-hydraulic simulation of a solar distillation system under pseudo steady-state conditions
K. Voropoulos, E. Delyannis and V. Belessiotis 107(1996)45-51

Systm description

Force Provider: An emergency response system
E.A. Downing 99(1994)401-408

Tammann-Tait-

Prediction of the density and viscosity of seawater, its concentrates and other multicomponent solutions using the Tammann-Tait-Gibson (TTG) model
J. V. Leyendekkers 29(1979)263-274

Tannic acid additive

Control of biological fouling in seawater reverse osmosis desalination
H. Winters, I. Isquith, W.A. Arthur and A. Mindler 47(1983)233-237

Tanning industry waste water

Ultrafiltration processes for pollution control and chemical reuse in the tanning industry
E. Drioli and B. Cortese
34(1980)131-139

Tanning processes

Chromium(III) salts recovery process from tannery wastewaters
C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini 108(1996)183-191

Taste tests

Appropriate mineral content of desalinated water — Theory and drinkers' reaction
E. Gabbrielli and J.P. Gerofi
45(1983)357

Teaching

Educational initiatives in teaching membrane technology
C.S. Slater and H.C. Hollein
90(1993)291-302

A water desalination course
H.T. El-Dessouky 94(1994)331-337

Technoeconomics

Gas turbines and fresh water. Technical and economic aspects *(in French)*
P.P. Chaffiotte 3(1967)46-59

Technical and economic analysis of several circuit diagrams of multi-stage flash distillation plants *(in German)*
A.I. Kornejitschev and A.W. Isvekov 5(1968)17-28

Analysis of the technical and economic data of multi-purpose nuclear plants *(in German)*
Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski 5(1968)201-216

Methodological aspects of technico-economic parameters of nuclear desalination plants
Y.I. Koryakin, A.A. Loginov and V.A. Chernyaev 7(1970)323-342

Considerations in the site selection and equipment specification for the Yanbu 380 m^3/ hr desalination plant
J.R. Stange and W.S. Hsieh 31(1979)69-

Technical and economical evaluation of an MSF solar energy powered desalination plant
S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito 31(1979)443-455

Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems
L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi 31(1979)457-468

Preconcentration by reverse osmosis before evaporation: possibilities in Sweden
P. Eriksson 35(1980)423-429

Large scale dew collection as a source of fresh water supply
A. K. Rajvanshi 36(1981)299-306

Comparative analysis of the efficiency of thermal desalination plants
V. Slesarenko and A. Shtim 37(1981)269-277

Technical and economic trends of sea water desalting in the '90s
L. Liberti, R. Passino, M. Santori and G. Boari 55(1985)503-514

Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study
P.K. Tewari, M.S. Hanra and M.P.S. Ramani 64(1987)203-210

Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study
P.K. Tewari, M.S. Hanra and M.P.S. Ramani 64(1987)203-210

Water and effluent water treatment using reverse osmosis
R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani 67(1987)507-521

Technoeconomics of power/desalting cogeneration plants in Kuwait - A preliminary study
A.A.J. Al-Zubaidi 76(1989)121-154

Role of evaporative and membrane desalination technology in solving drinking water problems in India
H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra 96(1994)249-258

Teflon FEP

Preparation of charged micro-mosaic membrane via radiation-induced grafting of styrene and methyl methacrylate onto Teflon FEP films
Gen Yun-Peng 62(1987)265-273

Temperature

Optimization of electrodialysis process at elevated temperatures
V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov 46(1983)253-262

The calculation of limiting current density of electrodialysis under the influence of water quality and temperature
Song Xu-Tong and Chen Guang 46(1983)263-274

Laboratory investigation on electrodialytic desalination of brackish water
G. Wisniewska, B. Cieploch and T. Winnicki 46(1983)275-281

Temperature dependence of membrane transport parameters in hyperfiltration
J.-Y. Chen, H. Nomura and W. Pusch 46(1983)437-446

The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures
M.A. Darwish, N.M. Al Najem, T. Froment and J. de Gunzbourg 74(1989)277-288

Several engineering equations in the design of reverse osmosis plants
J. Zhou, H. Ohya and K. Matsumoto 80(1991)15-30

Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water
H.I. Al-Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din 109(1997)25-37

Temperature correction

On a temperature correction coefficient for the water flux through reverse osmosis membranes of large scale systems
H. Ohya and Y. Taniguchi 15(1974)245-258

Temperature dependency of enthalpy and entropy

Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants
V. Slesarenko and A. Shtim 71(1989)203-210

Temperature dependent

A comparison of two commercial membranes used for biogas upgrading
M. Röhr and R. Wimmerstedt 77(1990)331-345

Temperature differences

Measurement of small temperature and pressure differences
N. Lior 59(1986)19-60

Temperature gradient

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
M. Bouscher, P. Pnueli and Y. Zvirin 49(1984)17-36

Some investigations on the possibility of using ocean thermal gradient (OTG) for seawater desalination
G. Damy and J. Marvaldi 67(1987)197-214

Temperature polarization phenomena

Modeling temperature polarization phenomena for longitudinal shell-side flow in membrane distillation process
S.P. Agashichev and D.V. Falalejev 108(1996)99-103

Temperature profiles

Some basic observations on heat transfer and evaporation in the horizontal flash evaporator
N. Lior and R. Greif
33(1980)269-286

Temperature/time response

Numerical determination of time responses of three flows heat exchanger in desalination plants
H. El-Hares 19(1976)103-112

Terminology

Terminology for pressure-driven membrane operations
V. Gekas 68(1988)77-92

Terminology for membrane distillation
K. Smolders and A.C.M. Franken
72(1989)249-262

Ternary aqueous solutions

Vapor pressures of ternary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi
1(1966)149-155

Ternary ion systems

Binary and ternary ion-exchange equilibria, SO_4^{2-}—Cl^-—NO_3^-—201 x 7 system
Tao Zuyi and Zhou Haimei
69(1988)125-134

Ternary system thermodynamics

Thermodynamics of ternary systems in reverse osmosis
M.W. Vonk and J.A.M. Smit
48(1983)105-119

Terpolymers

Aromatic polyamide-hydrazides for water desalination. II. RO membrane performance of terpolymers
M.D. Satre and N.D. Ghatge
91(1993)121-133

Terradynamics

Terradynamics as applied to ice
A. Pope 29(1979)17-23

Tertiary treatment

Removal of phosphorus from secondary effluent by a matrix filter
M. El-Hoz and L.W. Apperley
106(1996)247-253

Test center

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt
30(1979)101-126

Test facility

Reverse osmosis sea water test facility on board NS Otto Hahn
K.W. Böddeker, W. Hilgendorff and J. Kaschemekat 18(1976)307-313

Test measurements

Control in multiple effect evaporator plants
F.C. Standiford 59(1986)263-292

Control in vapor compression evaporators
F.C. Standiford 59(1986)293-305

Test modules

Report on the high flow rate long tube designed multistage flash evaporator test module
S. Toyama 22(1977)21-30

Sea water desalination by reverse osmosis in Chigasaki Laboratory
Y. Kunisada, H. Kaneda, M. Hirai and Y. Murayama 30(1979)337-345

Laboratory applications testing of desalination antiscalants
M. H. Auerbach and M. S. Carruthers
31(1979)279-288

Test plants

Sludge depositions in a long tube-high flow MSF test plant
T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
17(1975)87-95

Reverse osmosis desalting plant for industrial water at Kashima in Japan
T. Kasamatsu and J.G. Gaydos
20(1977)335-342

Progress of multistage flash evaporation process in Japan
S. Toyama 20(1977)343-352

Operating characteristics of 30,000 t/d module MSF test plant
K. Yokoyama, Y. Ikenaga and T. Yamamoto 22(1977)151-158

Study of one pass sea water reverse osmosis with 21,000 gpd capacity
N. Obiya 22(1977)457-464

Five years of operating experience of large scale distillation test plant made of carbon steel
H. Tabata and R. Yokoyama
27(1978)3-8

Investigation on sea water desalination plants in Spain
S. Muro, R. Sterner and J. Ugarte
28(1979)109-116

Reverse osmosis: Field trials of a GKSS plate module plant on Baltic Sea water
H. Finken, J. Kaschemekat and J. Mohn 29(1979)285-294

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt
30(1979)101-126

Field testing and economic evaluation of RO seawater technology
P. Glueckstern, M. Wilf and Y. Kantor 30(1979)235-245

Testing

Evaluation of a pressure boosting pump/turbine device for reverse osmosis energy recovery: Extended testing on a seawater desalination system
M. Silbernagel, T. Kuepper and E. Oklejas 88(1992)311-319

Analysis of reverse osmosis membrane behaviors in a long-term verification test
S. Kimura 100(1995)77-84

Tetraethylammonium perfluoroctanol sulfonate

Hyperfiltration of surfactants containing solutions from the plating industry
E. Staude, W. Assenmacher and H. Hoffmann 49(1984)321-333

Textile industry

Preparation and laboratory evaluation of cellulose-based ion permselective membranes
A. Süszer, E. Bandel and M. Flitman
7(1969)47-50

The desalting and recycling of wastewaters from textile dyeing operations using reverse osmosis
A.M. El-Nashar 20(1977)267-277

Full-scale demonstration of hyperfiltration for closed-cycle textile dyeing facility
C.A. Brandon and J.L. Gaddis 23(1977)19-28

Water re-use in fiber dyeing industry
G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi 23(1977)133-140

Application of high-temperature hyperfiltration to unit textile processes for direct recycle
C.A. Brandon and M. Samfield 24(1978)97-112

Energy and water conservation through recycle of dyeing wastewater using dynamic Zr(IV)-PAA membranes
A.M. El-Nashar 33(1980)21-47

Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiitration
C. A. Brandon, D. A. Jernigan, J. L. Gaddis and H. G. Spencer 39(1981)301-310

Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents
C.A. Buckley, R.L.C. Flemmer and G.R. Groves 47(1983)171-179

Reverse osmosis treatment and reuse of textile dyehouse effluents
K. Treffry-Goatley, C. A. Buckley and G. R. Groves 47(1983)313-320

Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams
J. J. Porter and G. A. Goodman 49(1984)185-192

Synthesis and properties of polysulfone membranes
K. Majewska-Nowak 71(1989)83-95

Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents
K. Majewska-Nowak, T. Winnicki and J. Wisniewski 71(1989)127-135

Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis
V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli 78(1990)257-277

Recovery of water and auxiliary chemicals from effluents of textile dye houses
S.N. Gaeta and U. Fedele 83(1991)183-194

Membrane distillation and wastewater treatment
V. Calabrò, E. Drioli and F. Matera 83(1991)209-224

The development of membrane technology for wastewater treatment in textile industry in China
Jihua Hao and Qingshuang Zhao 98(1994)353-360

Continuous electropermutation with ion-exchange textiles
S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach 104(1996)227-233

Capillary membranes for separation of dye particles
K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki 105(1996)91-103

Treatment and reuse of textile wastewater by overland flow
N. Sapari 106(1996)179-182

Purification of textile wastewater effluents by a combined Fenton process and ion exchange
Sheng H.Lin and Ming L. Chen 109(1997)121130

Theoretical analysis

Theoretical analysis of a novel modified recirculation multi-stage flash low temperature system
S.E. Aly 95(1994)189-198

Theoretical model

Spiral wound modules performance. An analytical solution: Part II
S. Avlonitis, W.T. Hanbury and M. Ben Boudinar 89(1993)227-246

Thermal analysis

Thermal analysis of multi-stage flash desalting systems
M.A. Darwish 85(1991)59-79

Assessment of thermal effects on the reverse osmosis of salt/water solutions by using a spiral wound polyamide membrane
N.M. Al-Bastaki and H.I. Al-Qahtani 99(1994)159-168

Steady-state analysis of multi-stage flash desalination process
H. El-Dessouky, H.I. Shaban and H. Al-Ramadan 103(1995)271-287

Thermal annealing

Thermal annealing effect on cellulose acetate reverse osmosis membrane structure
M.-J. Han and D. Bhattacharyya 101(1995)195-200

Thermal conductivity

Some physical properties of sea water in various concentrations
W.H. Emerson and D.T. Jamieson 3(1967)213-224

Physical properties of sea water solutions: thermal conductivity
D.T. Jamieson and J.S. Tudhope 8(1970)393-401

Thermal decomposition

A preliminary technical and economic investigation of sea water demineralization by ion-exchange for calcium and bicarbonate ions and their subsequent removal by thermal decomposition
J.P. Ranck 6(1969)75-85

Thermal desalination

Design of desalination plant facilities for remote locations
O.J. Morin 19(1976)533

MEDA: A new thermal concept for desalting plants
G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal 38(1981)147-

Trends in the major cost components of MSF desalting and their implications for future thermal desalting plant
F.C. Wood 40(1982)327-337

Simulation of thermal desalination processes, some results
R. Rautenbach and H.G. Büchel 45(1983)37

Thermal desalination of sea water in thin film plants
V.N. Slesarenko 45(1983)295-302

Transient model of multistage flash desalination
M.A. Rimawi, H.M. Ettouney and G.S. Aly 74(1989)327-338

Pressurized heavy water reactor desalination in the Indian context
P.K. Tewari, R.K. Verma and M.P.S. Ramani 95(1994)299-306

Seawater desalination in thin film plants
V. Slesarenko 96(1994)173-181

Thermal desalination plants

Optimization of basic parameters of thermal desalting plants with adiabatic evaporation
A.I. Korneichev, A.V. Izvekov and A.A. Myagkov 7(1970)179-186

Ice cooled ocean thermal energy conversion plants
D.J. DeMarle 29(1979)153-163

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt 30(1979)101-126

Comparative analysis of the efficiency of thermal desalination plants
V. Slesarenko and A. Shtim 37(1981)269-277

Operating experience of desalination units in Schevchenko
J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi 45(1983)167-174

Evaluation of thermal desalination plants water chemistry
O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov 47(1983)63-69

Basic considerations influencing the choice of materials for thermal seawater desalination plants
R.F. Elsaesser and H.E. Hoemig 49(1984)335-345

Influence of noncondensables on modern thermal desalination
J. Bharadwaj and V.R. Raghavan 49(1984)357-365

Characteristic features of desalination plants with thin film heat exchangers
V. Slesarenko 74(1989)305-316

Heat transfer in film-type evaporator with profiled tubes
V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash 74(1989)363-372

An overview of modern control strategies for optimizing thermal desalination plants
D.M.K. Al-Gobaisi, A.S. Barakzai and A.M El-Nashar 84(1991)3-43

Stand-alone thermal desalination plants
V.G. Rifert, P.A. Barabash, N.N. Goliayd and E.B. Kurilova 96(1994)183-190

Thermal desalination systems

The VTE boiler: An advanced thermal system for the desalination of sea water
I. Kamal and C.H. Hughes 31(1979)152

Synthesis of thermal desalination processes. Part I. Multistage flash distillation system (MSF)
N. J. Scenna 64(1987)111-122

Synthesis of thermal desalination processes. Part II. Multi effect evaporation
N.J. Scenna 64(1987)123-135

Thermal design

Advances in the methodologies of optimal thermal design
Y.M. El-Sayed 92(1993)79-101

Thermal efficiency

Modernizing the desalination industry
R.P. Hammond 107(1996)101-109

Thermal energy conversion

Ocean thermal energy conversion (OTEC) tugboats for iceberg towing in tropical waters
D.S. Sasscer and U. Ortabasi 28(1979)225-232

Ocean thermal energy and desalination
M. Rey and F. Lauro 39(1981)159-168

Thermal non-equilibrium

The relationship between flow pattern and thermal non-equilibrium in the multi-stage flash evaporation process
O. Miyatake, T. Hashimoto and N. Lior 91(1993)51-64

Thermal performance

The effect of tubeside maldistribution on the thermal performance of condensers used in multistage flash distillation plants
T. J. Rabas 55(1985)515-528

Thermal softening

Prevention of sulfate scale formation in desalination of the Aral Sea water
O.D. Linnikov and V.L. Podbereznyi 105(1996)143-150

Thermal stability, carbonate and bicarbonate ions

On the thermal stability of the HCO_3^- and the CO_3^{2-} ions in aqueous solutions
A.M. Shams El Din and R.A. Mohammed 69(1988)241-250

Thermal storage

Solar distillation: The solar-driven case
J.P. Gerofi, G.G. Fenton and E. Mannik 39(1981)83-94

Thermally driven membrane process

A study on thermal driven membrane processes in water purification
N. Chlubek and E. Drioli 46(1983)179-180

Thermally regenerated ion exchange

An ion-exchange process with thermal regeneration. VII. The rates of neutralization of weak electrolyte resins
B.A. Bolto and R.E. Warner 8(1970)21-34

An ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demineralisation of brackish waters
H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys 12(1973)217-237

An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin
B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis 13(1973)269-285

An ion-exchange process with thermal regeneration. X. Removal of dissolved oxygen from the feedwater
W.G.C. Raper 17(1975)325-328

Desalting in Australia: The development of a new process for brackish water
P.M. Sharples and B.A. Bolto 20(1977)391-401

An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins
B.A. Bolto and A.S. MacPherson 21(1977)71-82

Development of new type thermally regenerable ion exchange plant
K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby 22(1977)505-514

Re-use of treated laboratory effluents by a treatment system incorporating the 'Sirotherm' desalination process
T. Maeda 23(1977)161-170

Conjunctive use of reverse osmosis and thermally regenerated ion-exchange
D.W. Coillet and J.E. Cruver 23(1977)575-586

Ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents
B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak 25(1978)45-59

An ion-exchange process with thermal regeneration. XIII. Treatment of feedwater containing bicarbonate by adjustment of the pH of the regenerant with carbon dioxide
S.D. Hamann and N.H. Pilkington 28(1979)43-64

An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities
B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak 34(1980)171-188

An ion-exchange process with thermal regeneration. XV. Treatment of sulphite deoxygenated feedwaters
N.H. Pilkington and W.G.C. Raper 42(1982)255-272

An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins
B. A. Bolto, K. H. Eppinger, M. B. Jackson and R. V. Siudak 42(1982)273-290

Thermo-osmosis

Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water
R.P. Rastogi, K. Singh and B.M. Misra 3(1967)32-36

Thermochemical liquefaction

Production of heavy oil from sewage sludge by direct thermochemical liquefaction
S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama 98(1994)127-133

Thermocompression

Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation
R. Rautenbach and B. Arzt 44(1983)121-128

Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India
P.K. Tewari, S. Prabhakar and M.P.S. Ramani 79(1990)85-93

Thermocompression plants

Start-up of a thermocompression desalting plant without using external heat
S.N. Filippov, A.G. Khomenko and U.L. Zmeev 4(1968)30-31

Thermodynamic analysis

Transport properties of charge-mosaic membranes. I. Theoretical models
J.N. Weinstein, B.J. Bunow and S.R. Caplan 11(1972)341-377

Thermodynamic analysis
K. S. Spiegler 44(1983)3 -16

Ions and water transport across charged Nafion membranes. Irreversible thermodynamics approach
A. Narebska, S. Koter and W. Kujawski 51(1984)3-17

Analysis of a diesel dual plant
S. E. Aly 64(1987)137-150

On the thermodynamics of dual purpose power desalting plants. Part I. Using steam turbines
M.A. Darwish 64(1987)151-167

On the thermodynamics of dual purpose power desalting plants. Part II. Using gas turbines
M.A. Darwish, A. Elhadek and A. Dayoub 64(1987)169-182

A combined RO/freezing system to reduce inland rejected brine
A.A. Madani and S.E. Aly 75(1989)241-258

Analysis of an electrodialysis unit on the basis of irreversible thermodynamics
S. Koter 95(1994)139-153

Thermodynamic analysis MSE

Second law analysis of multieffect and multistage flash desalination plants
M.S. Al-Ahmad and M.A. Darwish 81(1991)449

Thermodynamic approach

Thermodynamic approach to reverse osmosis and the low pressure membrane
L.F. del Castillo 19(1976)211-220

Thermodynamic criteria

Use and abuse of thermodynamic criteria
R. S. Silver 40(1982)231-234

Thermodynamic efficiency

New geometry for MSF units
H.T. El-Dessouky and F. Mayinger
31(1979)45-55

The exergetic efficiency of MSF process and the conditions of desalination by waste heat
Shichang Wang 44(1983)39-49

Thermodynamic model

$CaSO_4$ scale conditions of membranes predicted by a multi-ion thermodynamic model
D. Barba, V. Brandani and G. di Giacomo 54(1985)227-237

A new model for predicting thermodynamic properties of sea salt solutions
V. Brandani, G. del Re and G. di Giacomo 56(1985)299-313

A general thermodynamic tool for predicting salting coefficients of non-electrolytes in brackish or seawater
D. Barba, F. Evangelista and L. Marrelli 71(1989)289-300

Solubility of boric acid in aqueous solutions of sulfate salts
G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
89(1992)185-202

Thermodynamic properties

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi
2(1967)271-278

Enthalpies of aqueous sodium chloride solutions from 32 to 350°F
A.M. Rowe, Jr. and James C. S. Chou
6(1969)105-115

The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 ($CClF_2CClF_2$)
G.L. Stepakoff and A.P. Modica
12(1973)85-105

Thermodynamics and composition of chlorine hydrate
D.A. Wilms and A.A. van Haute
12(1973)379-393

The properties of the hydrates of chlorine and carbon dioxide
A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn
16(1975)303-320

Thermodynamic properties of F-22($CHClF_2$) hydrate for use in desalting
A.J. Barduhn and W.-C. Lee
25(1978)151-162

Thermodynamic properties of normal butane at refrigeration temperatures
R.T. Kurnik and A.J. Barduhn
26(1978)211-283

A new model for predicting thermodynamic properties of sea salt solutions
V. Brandani, G. del Re and G. di Giacomo 56(1985)299-313

Thermodynamic synthesis

Optimal thermodynamic synthesis of dual-purpose desalination plants. Extraction vs. back pressure turbines
N.J. Scenna and P. Aguirre
81(1991)419-436

Thermodynamics

Thermodynamics of hyperfiltration (reverse osmosis): criteria for efficient membranes
K.S. Spiegler and O. Kedem
1(1966)311-326

Thermodynamics of ternary systems in reverse osmosis
M.W. Vonk and J.A.M. Smit
48(1983)105-119

Study on the interaction between membranes and organic solutes by the HPLC method
Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan 71(1989)107-126

Membrane desalination and water re-use technologies improvement by thermodynamics of accumulation processes regulatories
M.R. Mehandjiev 83(1991)245-246

Second-law analysis of recirculating multi-stage flash desalting system
M.A. Darwish, N.M. Al-Najem and M.S. Al-Ahmad 89(1993)289-309

Thermodynamics of geothermal fluids

Gas–-liquid equilibrium of aqueous salted solutions under high pressure and temperature
D. Barba, V. Brandani, G. Del Re and G. Di Giacomo 65(1987)101-112

Thermodynamics, second law

Cogeneration power-desalination plants
M. A. Darwish 69(1988)27-46

Thermoeconomic analysis

A novel 2500 GPD 5-effects wiped-film rotating disk vapor-compression module: Preliminary results
B. Tleimat and M. Tleimat
74(1989)289-303

Thermoeconomic study

Optimal performance of MSF distillers for UANW 9 and 10 power plant: A thermoeconomic study
A.M. El-Nashar and A.A. Qamhiyeh
93(1993)323-342

An MSF evaporator for the UANW 9 and 10 power station. Design considerations based on energy and exergy
A.M. El-Nashar 97(1994)253-279

Beachwell seawater intake as feed for an RO desalting system
M. Abdel-Jawad and S. Ebrahim
99(1994)57-71

Thermohaline stratified fluids

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to horizontal flows
D. Pnueli and Y. Zvirin
33(1980)163-183

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows
M. Bouscher, D. Pnueli and Y. Zvirin
36(1981)307-333

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
M. Bouscher, P. Pnueli and Y. Zvirin
49(1984)17-36

Thermophysical characteristics

Study of thermo-physical characteristics of thin film desalination plants
V. Slesarenko and V. Gydarov
30(1979)375-383

Thermophysical properties

Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range
V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
25(1978)269-280

Thermoplastic systems

Evaluation and development of technical thermoplastic systems for desalination and other water treatment applications
G. Mössner 44(1983)325-327

Thin film

Study of thermo-physical characteristics of thin film desalination plants
V. Slesarenko and V. Gydarov
30(1979)375-383

Thin film heat exchangers

Characteristic features of desalination plants with thin film heat exchangers
V. Slesarenko 74(1989)305-316

Thin-channel systems

Use of thin-channel systems for ultrafiltration and hyperfiltration
W. K. Nielsen and R. F. Madsen
34(1980)113-130

Thin-film composite membranes

Spiral-wound poly(ether/amide) thin-film composite membrane systems
R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
19(1976)113-126

Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA
K.G. Patel, F.L. Harris and K.C. Channabasappa 19(1976)381-388

Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients
W. Pusch and R. Riley
22(1977)191-203

Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis
R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
23(1977)331-355

Long term experiments on sea water desalination at the Chigasaki Laboratory
Y. Kunisada and Y. Murayama
27(1978)333-344

Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis
M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara 32(1980)13-23

A new thin-film composite seawater reverse osmosis membrane
J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson
32(1980)25-31

Recent developments in thin-film composite reverse osmosis membrane systems
R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami
36(1981)207-233

The application of thin film composite membranes in plate-and-frame systems for water purification
W. K. Nielsen and S. Kristensen
38(1981)383-396

Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials
M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi 38(1981)449-460

The FT-30 seawater reverse osmosis membrane: Element test results
R.E. Larson, J.E. Cadotte and R.J. Petersen 38(1981)473-483

Experiments with desalination of Arabian Gulf water
M. El-Salem 39(1981)261-271

The prospects of water removal by hyperfiltration using thin film composite membranes
W. K. Nielsen and S. Kristensen
41(1982)277-288

Experience with desalination of sea and brackish water using minimum pretreatment and high temperature
W.K. Nielsen 46(1983)67-79

Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements
R. E. Larson, R. J. Petersen and P. K. Eriksson 46(1983)81-90

Treatment of pulp/paper bleach effluents by reverse osmosis
M.J. Simpson and G.R. Groves
47(1983)327-333

Studies on the application of RO in treatment of rayon plant efffluent
S. Basu and S. Moulik
47(1983)335-342

Sea water applications with FILMTEC reverse osmosis membranes from small to large plants in 10 years
J.A. Redondo and K.F. Frank
82(1991)31-49

Transport characteristics of the reverse osmosis thin film composite membranes
V. Mavrov and S. Velikova
83(1991)279-288

Silicon/non-silicone grafted blend composite membranes for air/vapor separation
D. Fritsch, K.-V. Peinemann and R.-D. Behling 90(1993)235-247

Ultrafiltration of latex wastewaters
K. Konieczny and M. Bodzek
104(1996)75-82

Anion rejection in a nitrate highly rejecting reverse osmosis thin-film composite membrane
L. Panyor and C. Fabiani
104(1996)165-174

A study on the preparation of polyvinyl alcohol thin-film composite membranes and reverse osmosis testing
K. Lang, S. Sourirajan, T. Matsuura and G. Chowdhury 104(1996)185-196

Thin-film desalination

Hydrodynamics and heat transfer during seawater boiling in thin-film desalination plants
V. Slesarenko 21(1977)275-283

Thin-film evaporation

Improved high-performance fluted tube for thin-film evaporation and condensation
D.G. Thomas and L.G. Alexander 8(1970)13-19

Prospects for further improvement in enhanced heat transfer surfaces
D.G. Thomas 12(1973)189-215

Reheat type distilling plant
M. Takada, S. Kikuchi and J. Gaydos 20(1977)385-390

Dynamic behavior of thin film sea water evaporators
M. Schaal and F.S. Aschner 25(1978)233-252

Liquid film distributors for vertical tube evaporation desalination plants
M. Beccari, A.C. di Pinto and L. Spinosa 29(1979)295-310

Investigation of heat exchange during sea water boiling in a horizontal thin film desalination plant
V. Slesarenko 29(1979)311-318

Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow
V. Slesarenko 33(1980)251-257

Application of improved high-performance evaporator
M. Takada and J. C. Drake 45(1983)3-12

Some aspects of the development and operation of the desalination installations with horizontal-tube thin-film evaporators
V.I. Podbereznyi, J.K. Smirnov and J.V. Putilin 73(1989)447-455

Heat transfer in film-type evaporator with profiled tubes
V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash 74(1989)363-372

Interaction of spraying liquid and vapour in horizontal tube film evaporators
V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub 74(1989)391-400

Thin-film plants

Thermal desalination of sea water in thin film plants
V.N. Slesarenko 45(1983)295-302

Thin film desalination plants and their role in water supply
V. Slesarenko 65(1987)63-73

Sea water desalination in thin film plants
V. Slesarenko 81(1991)407-417

Characteristics of thin film desalination plants
V. Slesarenko 94(1994)321-329

Seawater desalination in thin film plants
V. Slesarenko 96(1994)173-181

Three-flow heat exchanger

Numerical determination of time responses of three flows heat exchanger in desalination plants
H. El-Hares 19(1976)103-112

Three-layer membranes

Development and evaluation of the electrosorption process for the desalination of water
R.E. Lacey and E.W. Lang 2(1967)387-393

Three-phase exchangers

Direct contact heat transfer with change of phase: bubble growth in three-phase systems
S. Sideman and J. Isenberg 2(1967)207-214

Threshold additives

25 years experience in the development and application of scale inhibitors
K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot 31(1979)243-255

Threshold agents

Effect of iron and copper during scale suppression by threshold compounds
J. Block, B.M. Watson, L.A. Burkholder and B. Albano 15(1974)279-286

Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure

S. Sarig, F. Kahana and R. Leshem 17(1975)215-229

Scale control inhibitor performance at 100°C under boiling conditions
R.W. Goeldner 47(1983)25-35

Threshold enhancement

Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation
J. Glater, K.S. Murdia and R. Dooly 14(1974)197-207

Threshold treatment

Scale control by threshold treatment
M.N. Elliot 8(1970)221-236

Tissue homogenate filtration

Biotechnical applications of a pleated crossflow microfiltration module
G. B. Tanny, D. Hauk and U. Merin 41(1982)299-312

Titanium

Titanium for sea water distillation tubing
N.G. Feige and R.L. Kane 7(1969)17-22

Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics
K.R. Fröhner 21(1977)147-164

Corrosion resistance of titanium in MSF desalination plant
K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka 22(1977)403-413

Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater
T. Hodgkiess and A. Asimakopoulos 38(1981)247-256

Corrosion tests of a range of materials in three MSF plants
T. Hodgkiess, W. T. Hanbury and M. H. Hejazian 44(1983)223-232

A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C
T. Hodgkiess and S. Rigas 44(1983)283-294

Prevention of the scale trouble of multi-effect stacked desalination plant
Y. Fujioka, M. Soda, M. Zama and I. Shimizu 73(1989)371-383

Effect of residual and minor constituents on the corrosion behaviour of some technically important alloys
A.M. Shams El Din 93(1993)487-498

Hydrogen absorption and its prevention of titanium in a simulated descaling environment in a desalination plant
H. Satoh 97(1994)45-51

Titanium alloys

Pitting of titanium alloys in saline waters
F.A. Posey and E.G. Bohlmann 3(1967)269-279

Titanium exchange tubes

Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material
C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl 97(1994)53-65

Titanium heat exchange tubing

Experience with desalination plants containing titanium heat exchange tubing
J.A.S. Green, B.W. Gamson and W.F. Westerbaan 22(1977)359-368

Titanium tube

Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets
K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto 97(1994)147-158

Titanium tubes

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube
T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo 31(1979)389-398

Light gauge welded titanium tubes for seawater desalination plants
K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida 73(1989)429-446

Titanium hydride formation from Arabian Gulf water
A.M. Shams El Din, T.M.H. Saber and A.M. Taj El Din 107(1996)265-276

Tortuous spacer

Mass transfer in the U-turn of an electrodialyzer
In Ho Kim, In Soek Kang and Ho Nam Chang 33(1980)139-161

Total dissolved solids

Desalination and reuse of power plant effluents: From pilot plant to full scale application
C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom 67(1987)255-269

Electrical conductivity and total dissolved solids - what is their precise relationship?
N.R.G. Walton 72(1989)275-292

Total reflux

Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions
G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath 36(1981)87-97

Trace element removal

Trace element removal from ash dam waters by nanofiltration and diffusion dialysis
R. Simons 89(1993)325-341

Tracer diffusion

Tracer diffusion coefficients in water-tri-*n* -butylphosphate solutions
G. Michaeli and O. Kedem 8(1970)359-367

Training

An undergraduate program in desalination
R. Bakish and W. Arthur 23(1977)291-298

Saudi Arabian-U.S. joint agreement for technical cooperation in desalination
I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan 30(1979)247-157

The role of consultant engineers on personnel training and desalination plant operation
A. De Maio, F. Fioravanti and G. Odone 30(1979)439-442

Education and training in desalination around the world
R. Bakish 39(1981)477-482

A new idea for training operators
A. De Maio, F. Fioravanti and G. Odone 39(1981)483-487

Training manual

Outline of a training manual for desalination plant operators
R. Bakish and E. Catanzaro 30(1979)461-466

Training methods

A new idea for training operators
A. De Maio, F. Fioravanti and G. Odone 39(1981)483-487

Training program

Saudi Arabian-U.S. joint agreement for technical cooperation in desalination
I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan 30(1979)247-157

Training simulator, for operators

Development of training simulator for MSFE desalination plant
M. Kishi, K. Hattori, M. Tatsumoto and S. Koyama 66(1987)75-90

Transference numbers

A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models
R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson 17(1975)313-324

Transient analysis

Transient analysis of double-basin solar still integrated with collector
Y.P. Yadav 71(1989)151-164

Transient performance of a high temperature solar distillation system
Y.P. Yadav 91(1993)145-153

Transient model

Transient model of multistage flash desalination
M.A. Rimawi, H.M. Ettouney and G.S. Aly 74(1989)327-338

Transient performance

Transient performance of a single basin solar still with water flowing over the glass cover
G.N. Tiwari and V.S.V. Bapeshwara Rao 49(1984)231-241

Simulation of the performance of MES evaporators under unsteady state operating conditions
A.M. El-Nashar and A. Qamhiyeh 79(1990)65-83

Transient solubilities

Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater
A. Cohen, M. Zangen, M. Koenigsbuch and J. M. E. Goldschmidt 41(1982)215-232

Transition metal ion removal

Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India
A.V. Singh, S. Gupta and S.C. Gupta 104(1996)235-238

Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India
A.V. Singh, S. Gupta and S.C. Gupta 104(1996)235-238

Transmembrane flux

Concentration polarization and fouling
E. Matthiasson and B. Sivik 35(1980)59-103

Ultrafiltration at low degrees of concentration polarization: Technical possibilities
M. López-Leiva 35(1980)115-128

Transmission microscopy

The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope
G.J. Gittens, P.A. Hitchcock and G.E. Wakley 12(1973)315-332

Transport, Ammine-silvcr complex

Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions
D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli 68(1988)131-148

Transport characteristics

Preferential chloride-sulfate ion transport in electrodialysis using tetra-allylammonium chloride membranes prepared by a modified method
H. Schweigart 2(1967)154-160

The structure of cellulose acetate membranes. II. The physical and transport characteristics of the porous layer of anisotropic membranes
R. Matz 11(1972)207-215

Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis
L. Dresner 15(1974)109-125

Piezodialytic transport across charge-mosaic membranes
T. Winnicki, G. Blazejewska and A. Mika-Gibala 32(1980)77-89

Transport characteristics of the reverse osmosis thin film composite membranes
V. Mavrov and S. Velikova 83(1991)279-288

Transport coefficients

Transport coefficients and salt rejection in uncharged hyperfiltration membranes
J. Jagur-Grodzinski and O. Kedem 1(1966)327-341

The determination of the intrinsic characteristics of reverse osmosis membranes
C. Elata 6(1969)1-12

Transport coefficients of asymmetric cellulose acetate membranes
W. Pusch 16(1975)65-83

Study of the morphology and determination of the transport coefficients for reverse osmosis membranes
G. Boari, C. Merli, G. Mossa and R. Passino 16(1975)271-285

Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion
G. Belfort and J. Scherfig 18(1976)43-58

Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion
G. Belfort and J. Scherfig 18(1976)43-58

Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients
W. Pusch and R. Riley 22(1977)191-203

Transport coefficients of asymmetric and composite membranes
J.-Y. Chen, M. Kurihara and W. Pusch 46(1983)379-388

Bentonite-stabilized CDA/CTA membranes: II. Determination of the transport coefficients l_{ep} and l_p
H. Finken 48(1983)235-251

Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
W. Pusch, Y.-L. Yu and L.-Y. Zheng 75(1989)3-14

Characterization of the reverse osmosis membranes CA 80 and CA 95 by transport coefficients
S. Velikova, V. Mavrov and M. Marinov 91(1993)293-306

Transport coefficients modelling

Salt and water permeability in reverse osmosis membranes
N.G. Voros, Z.B. Maroulis and D. Marinos-Kouris 104(1996)141-154

Transport mechanism

Transport within ion-exchange membranes
R.A. Wallace and J.P. Ampaya
14(1974)121-134

Salt transport in composite reverse osmosis membranes
L. Dresner 15(1974)371-374

Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCI solutions and analysis of boundary layer overpotentials
R. Passino, G. Boari, A. Rozzi and G. Tiravanti 24(1978)55-82

Transport mechanisms

Performance of RO membranes in correlation with membrane structure, transport mechanisms of matter and module design (fouling). State of the art
W. Pusch 77(1990)35-54

Microfiltration membranes, cross-flow transport mechanisms and fouling studies
V. Gekas and B. Hallström
77(1990)195-218

Fouling prediction in reverse osmosis processes
M. Barger and R.P. Carnahan
83(1991)3-33

Transport model

Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions
D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli 68(1988)131-148

Membranes as fractals: Implications and concequences
C.M. Tam and A.Y. Tremblay
90(1993)77-91

Fractionation of aqueous organic mixtures by reverse osmosis
R. Rautenbach and A. Gröschl
90(1993)93-106

A lumped transport parameter approach in predicting B10 RO permeator performance
A. Malek, M.N.A. Hawlader and J.C. Ho 99(1994)19-38

Transport numbers

Silica transport through charged membranes
G. Boari, C. Merli, R. Passino and G. Tiravanti 15(1974)3-10

Membrane potential measurements on cellulose acetate membranes
S.G. Wong and J.C.T. Kwak
15(1974)213-224

Permeability of mono-carboxylate ions across an anion-exchange membrane
R. Dohno, T. Azumi and S. Takashima
16(1975)55-64

The structure and relative transport number of sulphonated polysulphone membranes
N. Vinnikova and G.B. Tanny
24(1978)191-192

Characterization of electrodialysis membranes by chronopotentiometry
R. Audinos and G. Pichelin
68(1988)251-264

Transport parameters

Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from single solute aqueous solution
S. W. Thiel and D. R. Lloyd
46(1983)399-406

Transport through charged ultrafiltration membranes
S. Kimura and I. Jitsuhara
46(1983)407-416

Temperature dependence of membrane transport parameters in hyperfiltration
J.-Y. Chen, H. Nomura and W. Pusch
46(1983)437-446

Comparative evaluation of industrial membranes: Correlation between transport and operational parameters
S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta 94(1993)1-10

Transport phenomena

Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis
J.L. Halary, C. Noël and L. Monnerie
27(1978)197-213

Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis
J.L. Halary, C. Nöel and L. Monnerie
32(1980)65-76

Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids
J. Hiddink, D. Kloosterboer and S. Bruin 35(1980)149-167

Hold up and flow of liquid film at a horizontal tube bundle
S. Toyama, T. Aragaki, T. Sato and H. Kato 45(1983)289-294

The efficient use of energy in membrane distillation
A.G. Fane, R.W. Schofield and C.J.D. Fell 64(1987)231-243

Transport properties

Water transport in porous and non-porous membranes
G. Thau, R. Bloch and O. Kedem
1(1966)129-138, Err. 1(1966)296-

Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes
R.L. Riley, C.R. Lyons and U. Merten
8(1970)177-193

Electrostatic phenomena in ion exchange membranes
S. D'Alessandro and A. Tantillo
9(1971)225-234

Transport properties of charge-mosaic membranes. I. Theoretical models
J.N. Weinstein, B.J. Bunow and S.R. Caplan 11(1972)341-377

Transport properties of charge-mosaic membranes. II. Experimental studies
J.N. Weinstein, B.M. Misra, D. Kalif and S.R. Caplan 12(1973)1-17

Transport properties of charge-mosaic membranes. III. Piezodialysis
C.R. Gardner, J.N. Weinstein and S.R. Caplan 12(1973)19-33

Piezodialysis
F.B. Leitz 13(1973)373-388

Water and solute transport through cellulose acetate reverse osmosis membranes
G. Jonsson and C.E. Boesen
17(1975)145-165

Determination of transport properties and limiting current densities of ion exchange membrane stacks
K. Hattenbach and K. Kneifel
21(1977)317-326

Improved membrane separations by selective chelation of metal ions in aqueous feeds
H.B. Hopfenberg, K.L. Lee and C.P. Wen 24(1978)175-189

Salt rejection and flux in reverse osmosis with compactible membranes
W.C.M. Henkens and J.A.M. Smit
28(1979)65-85

Reverse osmosis with a cellulose acetate membrane in the reverse orientation
J.A.M. Smit 36(1981)291-297

Changes in water and salt transport during hydrolysis of cellulose acetate reverse osmosis membranes
J. Glater and S. McCray
46(1983)389-397

Bentonite-stabilized CDA/CTA membranes: I. Improved long-term transport properties
H. Finken 48(1983)207-222

Transport properties of Toray's asymmetric cellulose acetate membranes
M. Kurihara, W. Pusch and T. Tanaka
56(1985)251-260

RO transport properties of several electrolytes through homogeneous CA membrane
Y. Kurokawa, Y. Mashiko and S. Saito 58(1986)19-32

Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place zirconium (IV) hydrous oxide-polyacrylate membranes in lactose-water solutions
D. Szaniawska and H.G. Spencer
95(1994)121-137

Transport, Proton

Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid
G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach
80(1991)193-209

Transport theories

Overview of theories for water and solute transport in UF/RO membranes
G. Jonsson 35(1980)21-38

Transverse flow

Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration
H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz 90(1993)345-361

Treatment plant

Solar distillation treatment of landfill leachate. A case study in Greece
K.L. Katsifarakis 94(1993)213-221

Tributylphosphate

Tracer diffusion coefficients in water-tri-*n* -butylphosphate solutions
G. Michaeli and O. Kedem
8(1970)359-367

Trichlorofluoromethane

Hydrate process performance with low density additives
W. Schneider and F.V. Waller
18(1976)189-202

Trihalomethane

Trihalomethanes (THMs) formation in multi-stage flash (MSF) distillation plants
N.A. Latif, F.M. Al-Awadi and B.A. Colenutt 74(1989)205-226

THM precursor removal and softening — Ft. Myers 12 MGD RO Membrane Plant, Florida, USA
P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson
76(1989)39-52

A contribution to the problem of trihalomethane formation from the Arabian Gulf water
A.M. Shams El Din, R.A. Arain and A.A. Hammoud 85(1991)13-32

New disinfection method in RO seawater desalination systems
S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino 96(1994)191-199

Trihalomethane formation

Trihalomethanes (THMs) formation in a distillation process
B. Tawabini, H. Kharajian and N. Fayad 66(1987)403-414

Trihalomethanes (THMs) formation in multi-stage flash (MSF) distillation plants
N.A. Latif, F.M. Al-Awadi and B.A. Colenutt 74(1989)205-226

Triple point

Evaporation of water from agitated freezing slurries at low pressure
L.C. Dickey 104(1996)155-163

Tube bundle

Studies on the behaviour of high performance multiple-effect-stack processes
R. Rautenbach and J. Gebel
65(1987)75-85

Tube bundles

Influence of spray density on coefficient of gas dynamic resistance for tube bundles of different configuration
V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub 74(1989)383-389

Tube cleaning systems

On line tube cleaning systems for polyphosphate plants
S.V. Cabibbo and J.T. Callahan
23(1977)311-319

Tube evaporator

Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller
J.C. Deronzier, F. Lauro and R. Ployart 39(1981)117-123

Tube evaporators

Orbital tube evaporation and distillation systems
Yao Tzu Li and I Chien Ho
65(1987)87-99

Orbital tube evaporation and distillation systems
Yao Tzu Li and I Chien Ho
65(1987)87-99

Tubeless evaporator

A tubeless evaporator
D.W. Schroeder and P.J. Schroeder
38(1981)155

Tubes, corrugated

Heat transfer and pressure drop of corrugated tubes
K. Mimura and A. Isozaki
22(1977)131 -139

Tubes, curved

Reverse osmosis in laminar flow through curved tubes
R.J. Nunge and L.R. Adams 13(1973)17-36

Tubes, geometry

Improved performance of heat transfer surfaces in desalination *(in French)*
J. Croix and F. Lauro 31(1979)35-

Tubeside maldistribution

The effect of tubeside maldistribution on the thermal performance of condensers used in multistage flash distillation plants
T. J. Rabas 55(1985)515-528

Tubing

The use of titanium tubes in MSF desalination plants
A.R. Morris 31(1979)387

Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube
T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo 31(1979)389-398

Tubular collectors

Solar distillation: The solar-driven case
J.P. Gerofi, G.G. Fenton and E. Mannik 39(1981)83-94

Tubular filter press

The dewatering of sludges using a tubular filter press
K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley 67(1987)467-479

Tubular flow

Reverse osmosis in shell and tubes
Y. Winograd, M. Toren and A. Solan 14(1974)173-187

Tubular membrane channel

Concentration build-up in reverse osmosis in turbulent flow
Y. Winograd and A. Solan 7(1969)97-109

Concentration polarization at the phase boundary of an external tubular reverse osmosis membrane
C.K. Tsao 8(1970)243-258

Tubular membrane support

Study of polyurethane foam for tubular membrane support *(in Spanish)*
J.A. Septién and J.F. del Valle 19(1976)405-409

Tubular membranes, see Membranes tubular

-

Tuna broth treatment

Preparation and characterization of polysulfone Ultrafiltration membranes for concentrating waste tuna broth
E. J. Del Rosario and F. D. Duldulao 70(1988)293-298

Turbidimetry

Automated continuous monitoring of sulphate contents in brines
F. Sigon 47(1983)71-80

Turbidity measurements

Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities
J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter 48(1983)293-297

Turbulence promoters

The role of turbulence promoters in hyperfiltration plant optimizatlon
D.G. Thomas, W.L. Griffith and R.M. Keller 9(1971)33-50

Mass transfer in narrow channels in the presence of turbulence promoters
Y. Winograd, A. Solan and M. Toren 13(1973)171-186, Err. 13(1973)395

Use of fluidised beds as turbulence promotors in tubular membrane systems
M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay 22(1977)465-483

An analysis of the performance of a spiral wound ultrafiltration membrane, with a turbulence-promoting net
R. L. C. Flemmer, C. A. Buckley and G. R. Groves 41(1982)25-32

A consideration on flow distribution in an ion exchange compartment with spacer
H. Miyoshi, T. Fukumoto and T. Kataoka 42(1982)47-55

Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer
O. Kuroda, S. Takahashi and M. Nomura 46(1983)225-232

Effect of characterizations of spacer in electrodialysis cells on mass transfer
X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li 46(1983)243-252

EDS: sealed cell electrodialysis
O. Kedem, J. Cohen, A. Warshawsky and N. Kahana 46(1983)291-299

Performance of a spiral wound ultrafiltration membrane with turbulence promoting net under conditions of strong pressure gradient and fouling
R.L.C. Flemmer 48(1983)321-329

Velocity profile caused by a high porosity spacer between parallel plates (membranes)
W.W. Focke and P.G.J.M. Nuijens 49(1984)243-253

Turbulence promotion

Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets
A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini 26(1978)3-16

Turbulent flow

Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes
W.L. Griffith, R.M. Keller and K.A.Kraus 4(1968)283-308, Err. 11(1972)129

A finite difference solution for reverse osmosis in turbulent flow
S. Srinivasan and C. Tien 7(1969)51-74

Concentration build-up in reverse osmosis in turbulent flow
Y. Winograd and A. Solan 7(1969)97-109

Polarization in unit cells
G. Garza 24(1978)211-223

Turbulent flow theory
A turbulent flow theory of electrodialysis
R.F. Probstein, A.A. Sonin and E. Gur-Arie 11(1972)165-187

Two-dimensional counterwasher
Analytical solution of a sink model of a two dimensional counterwasher
N.H. Kemp 12(1973)127-139

Two-phase evaporating flows
Control of two-phase evaporating flows
S.J. Ball 59(1986)199-217

two-phase flashing flow
Flashing flow of water in conduits between chambers in MSF units
A.A. Rizk, M.A. Darwish and S.M. El-Haggar 20(1977)299-318

two-phase tubular flow
The rate of heat transfer of seawater and NaCI solutions under conditions of one- and two-phase flow in tubes
V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein 26(1978)175-180

Two-solute separation
A method for the determination of the optimal reverse osmosis membrane for two-solute separation
L. Kiørboe, C.E. Boesen and G. Jonsson 12(1973)35-43

Two-solute solutions
Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler 34(1980)25-34

U-11755 polymeric solvent
The Puraq seawater desalination process
L. Lazare 42(1982)11-16

U-turn geometry
Mass transfer in the U-turn of an electrodialyzer
In Ho Kim, In Soek Kang and Ho Nam Chang 33(1980)139-161

UF
Nanofiltration of highly colored raw water for drinking water production
B. Ericsson, M. Hallberg and J. Wachenfeldt 108(1996)129-141

Ultimate elongation
Influence of some processing variables on the properties of cellulose acetate membranes. I. Ultimate properties and birefringence
E.A. Meinecke and D.V. Mehta 10(1972)341-352

Ultrafiltration membranes
Mathematical modelling of reverse osmosis and ultrafiltration processes
J. Murkes and H. Bohman 11(1972)269-301

Hybrid reverse osmosis ultrafiltration membranes
S.B. Sachs, E. Zisner and G. Herscovici 18(1976)99-111

A molecular friction model for transport of uncharged solutes in neutral hyperfiltration and ultrafiltration membranes containing bound water
G. Belfort 18(1976)259-281

A survey of structure characterization methods for ultrafiltration and reverse osmosis membranes
C.A. Smolders, M.H.V. Mulder and P.M. van der Velden 19(1976)481

Application of membrane processes
H.B. Sliger and R. Quinn 19(1976)573-586

An alternative design concept in reverse osmosis desalination
K.W. Böddeker, W. Hilgendorff and J. Kaschemekat 20(1977)155-162

Waste water renovation by sewage ultrafiltration
S.B. Sachs and E. Zisner 20(1977)203-215

Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes
W.L. Thayer, L. Pageau and S. Sourirajan 21(1977)209-219

On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes
L. Broens, D.M. Koenhen and C.A. Smolders 22(1977)205-219

An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon
S. Iwai, H. Ohmori and T. Tanaka 23(1977)29-36, Err. 25(1978)215

Pilot plant test of an activated sludge ultrafiltration combined process for domestic wastewater reclamation
M. Arika, H. Kobayashi and H. Kihara 23(1977)77-86

Water re-use by ultrafiltration in individual building
J. Saito and S. Fujii 23(1977)183-193

Present art and status of reverse osmosis and ultrafiltration in Japan
H. Ohya 23(1977)223-233

Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow
R.F. Probstein, J.S. Shen and W.F. Leung 24(1978)1-16

Ultrafiltration of bleach effluents as an example of waste-water treatment by ultrafiltration
R.F. Madsen and W.K. Nielsen 24(1978)141-154

Membrane processes used for the treatment of industrial effluents
P. Mappelli, M. Santori, A. Chiolle and G. Gianotti 24(1978)155-173

Membrane processes combined with enzymatic reactions: an experimental study
E. Drioli, M. Mendia and R. Molinari 24(1978)193-209

High-pressure techniques with porous glass membranes
R. Schnabel and W. Vaulont 24(1978)249-272

Description of a rotating ultrafiltration module
B. Hallström and M. Lopez-Leiva 24(1978)273-279

Design and operating parameters for tubular ultrafiltration membrane modules
R. Matz and Y. Meitlis 24(1978)281-294

A miniature reverse osmosis/ultrafiltration system
A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer 24(1978)305-312

Concentration polarization and solute membrane interactions affecting pressure driven membrane processes
E. Drioli and F. Bellucci 26(1978)17-36

Asymmetric polyimide membranes for filtration of non-aqueous solutions
H. Strathmann 26(1978)85-91

High flux cellulose acetate ultrafiltration membranes
O. Kutowy, W. L. Thayer and S. Sourirajan 26(1978)195-210

Experience with plate-and-frame ultrafiltration and hyperfiltration systems for desalination of water and purification of waste water
W. K. Nielsen, R. F. Madsen and O. J. Olsen 32(1980)309-326

Solvent resistant membranes from poly(*p* -phenylene-terephthalamide)
P. Zschocke and H. Strathmann 34(1980)69-75

Use of thin-channel systems for ultrafiltration and hyperfiltration
W. K. Nielsen and R. F. Madsen 34(1980)113-130

Ultrafiltration processes for pollution control and chemical reuse in the tanning industry
E. Drioli and B. Cortese 34(1980)131-139

Overview of theories for water and solute transport in UF/RO membranes
G. Jonsson 35(1980)21-38

Ultrafiltration at low degrees of concentration polarization: Technical possibilities
M. López-Leiva 35(1980)115-128

Fouling of ultrafiltration membranes: lateral migration and the particle trajectory model
G. Green and G. Belfort 35(1980)129-147

Production of whey protein concentrates with high solids content
J. Rubin 35(1980)193-199

Production and properties of yoghurt and ymer made from ultrafiltrated milk
G. Mogensen 35(1980)213-222

Overview of concentration polarization in ultrafiltration
S. Bruin, A. Kikkert, J. A. G. Weldring and J. Hiddink 35(1980)223-242

Utilization of the new mineral UF membranes for making semi-hard cheeses
H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut 35(1980)243-258

Ultrafiltration of effluents from slaughterhouses and brine in the meat industry
M. Goldberg 35(1980)303-315

System options and costs in dairy ultrafiltration
P. Dejmek and H. Engwall 35(1980)397-400

Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone
C. Friedrich, A. Driancourt, C. Noël and L. Monnerie 36(1981)39-62

Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid
Q.T. Nguyen, Y. Jyline and J. Neel 36(1981)277-283

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

An analysis of the performance of a spiral wound ultrafiltration membrane, with a turbulence-promoting net
R. L. C. Flemmer, C. A. Buckley and G. R. Groves 41(1982)25-32

Effect of recovery on desalination of the Black Sea water by reverse osmosis
I. Dobrevsky, V. Mavrov and B. Bonev 41(1982)209-214

Recycling of detergents after ultrafiltration of cleaning solutions
H. Paul 41(1982)313-325

Ultrafiltration membrane processes: The Sleeping Giant
R.M. Quinn 46(1983)113-123

Transport through charged ultrafiltration membranes
S. Kimura and I. Jitsuhara 46(1983)407-416

Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface
Y. Taketani, T. Matsuura and S. Sourirajan 46(1983)455-466

Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents
C.A. Buckley, R.L.C. Flemmer and G.R. Groves 47(1983)171-179

Two-phase ultrafiltration as an economical unit operation for recycling of detergents
H. Paul 47(1983)293-304

Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse
G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson 47(1983)305-312

Additives for the preparation of polysulfone-based ultrafiltration membranes, especially for hemodialysis and hemo-osmometer
Xu Xie-quing 48(1983)79-84

Performance of a spiral wound ultrafiltration membrane with turbulence promoting net under conditions of strong pressure gradient and fouling
R.L.C. Flemmer 48(1983)321-329

Treatment of highly fouling waste waters with tubular membrane systems
S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru 49(1984)347-355

Molecular weight cut-off curves for ultrafiltration membranes of varying pore sizes
G. Jonsson 53(1985)3-10

The status of development and application of reverse osmosis and ultrafiltration technique in China
Lingying Zheng 54(1985)151-162

Decolorization of dye solutions by continuous ultrafiltration
K. Majewska-Nowak and T. Winnicki 60(1986)59-66

The arrangement of spiral-wound ultrafiltration modules
R. L. C. Flemmer, C. A. Buckley and G. R. Groves 61(1987)159-168

A review of fouling and fouling control in ultrafiltration
A. G. Fane and C. J. D. Fell
62(1987)117-136

Membrane development for seawater desalination
E. Drioli 63(1987)57-69

Recovery of lignosulphonate from a calcium bisulphite pulp mill by ultrafiltration
F.G. Neytzell-de Wilde
67(1987)495-505

Parametric evaluation of flux decline during ultrafiltration of protein solutions
A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik
68(1988)35-44

High performance ultrafiltration membranes cast from LiCl doped solutions
A. Bottino, G. Capannelli, S. Munari and A. Turturro 68(1988)167-177

Recent advances of reverse osmosis and ultrafiltration in China
Zheng Ling-Ying 70(1988)17-45

Flux and rejection in the ultrafiltration of colloids
R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell 70(1988)251-264

Detailed investigation of effects of operating parameters of ultrafiltration using laboratory-scale ultrafiltration unit
S. Vigneswaran and Wong Yen Kiat
70(1988)299-316

Permeate flux improvement along a tubular ultrafiltration membrane
B. Dutre and D. Taeymans
70(1988)317-326

Optimum arrangement of membranes in a multistage ultrafiltration
M.S. Suwandi and I. Singh
70(1988)327-337

Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions
P. Gatenholm, C.J.D. Fell and A.G. Fane 70(1988)363-378

Synthesis and properties of polysulfone membranes
K. Majewska-Nowak 71(1989)83-95

Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents
K. Majewska-Nowak, T. Winnicki and J. Wisniewski 71(1989)127-135

Membrane cleaning
G. Trägårdh 71(1989)325-335

Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles
W. Zhang, M. Wahlgren and B. Sivik
72(1989)263-273

Desal-5 membrane for water softening
D.L. Comstock 76(1989)61-72

Preparation of ultrafiltration membranes. State of the art
S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
77(1990)85-100

Flux decline in ultrafiltration processes
G.B. Van Den Berg and C.A. Smolders 77(1990)101-133

Ultrafiltration applications
A.-S. Jönsson and G. Trägårdh
77(1990)135-179

Characterization of ultrafiltration polymeric membranes
P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
78(1990)235-255

Concentration and purification of gelatin liquor by ultrafiltration
B. Chakravorty and D.P. Singh
78(1990)279-286

Formation of UF rod-type membranes
K. Majewska-Nowak, J. Wisniewski and T. Winnicki 78(1990)417-427

Membrane characterization using the contact angle technique. I. Methodology of the captive bubble technique
W. Zhang and B. Hallström
79(1990)1-12

Ultrafiltration of bleach effluents in cellulose production
M.D. Afonso and M.N. De Pinho
79(1990)115-124

Ultrafiltration of demineralized water containing colloidal silica
K. Konieczny and M. Bodzek
79(1990)145-161

The effect of pulsed flow on ultrafiltration fluxes in a baffled tubular membrane system
S.M. Finnigan and J.A. Howell
79(1990)181-202

Polyacrylonitrile and polyvinyl chloride ultrafiltration membranes in the treatment of anaphoretic emulsion paint
M. Bodzek and K. Konieczny
80(1991)43-60

Pervaporation and dehydration of water-ethanol mixtures by means of cuprophan hollow fiber membranes
Jin Sheng and J.C. Mora
80(1991)71-84

Fouling resistance models in MF and UF
K.M. Persson and J.L. Nilsson
80(1991)123-138

Pore size control technique in the spinning of polysulfone hollow fiber ultrafiltration membranes
S. Doi and K. Hamanaka
80(1991)167-180

Concentration by UF of hazardous effluents extracted into emulsions from water solutions; examples with aniline and azobenzene
M. Nyström 81(1991)117-127

Separation of multicomponent solutions using reagent ultrafiltration
Y.I. Dytnersky, K.A. Volcheck and N.B. Polyanskaya 81(1991)273-279

Condensate re-use by ultrafiltration oil removal
V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev
83(1991)195-207

Studies of the UF-25-PAN membrane characteristics in the complexing-UF process of Cu, Ni, and Co with polyvinylalcohol
V. Mavrov, I. Petrova, K. Davarsky and S. Manolov 83(1991)289-300

Optimizing process time for ultrafiltration and diafiltration
B. Ali Asbi and M. Cheryan
86(1992)49-62

An acrylonitrile copolymer material for membrane manufacture. III. Manufacture of a co-mixed UF membrane of AN-MMA binary copolymer and polyvinyl chloride
Ling Al-Lian, Zheng Yong-Zhuang, Bao Shi-Yao and Fan Song-Chun 86(1992)291-300

Modification of the properties of rod-type membranes by varying typical parameters of the casting process for phase inversion membranes: A comparative study
K. Majewska-Nowak, J. Wis´niewski and T. Winnicki 89(1992)47-62

Influence of covalent attachment of low molecular weight substances on the rejection and adsorption properties of crystalline proteinaceous ultrafiltration membranes
S. Küpcü, M. Sára and U.B. Sleytr 90(1993)65-76

Effects of surface force interactions on an NF/UF membrane
B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson 90(1993)107-118

The industrial application of ultrafiltration membranes
Bing-hua Zhu and Peng Cheng 90(1993)119-126

Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan
A. Higuchi, Y. Ishida and T. Nakagawa 90(1993)127-136

Controlled deposit formation to influence the retention of solutes in reverse osmosis and ultrafiltration
H.D. Obermeyer, U. Kulozik and H.G. Kessler 90(1993)161-172

Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration
H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz 90(1993)345-361

The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review
A.D. Marshall, P.A. Munro and G. Trägårdh 91(1993)65-108

Preliminary experiment on seawater pretreatment with UF membranes for RO desalination
T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto 93(1993)235-244

Characterization of gel layer formed during ultrafiltration of latex emulsion waste waters
M. Bodzek and K. Konieczny 94(1993)81-100

Modelling of the ultrafiltration of electrophoretic emulsion paint
M. Bodzek and K. Konieczny 94(1994)261-272

Optimization of the ultrafiltration of latex wastewaters
M. Bodzek and K. Konieczny 94(1994)289-306

Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone
D. Düputell, E. Staude and D. Wyszynski 95(1994)75-89

Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications
B. Dutré and G. Trägårdh 95(1994)227-267

Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications
B. Dutré and G. Trägårdh 95(1994)227-267

Membrane applications in raw water treatment with and without reverse osmosis desalination
B. Ericsson and B. Hallmans 98(1994)3-16

Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system
K. Ishiguro, K. Imai and S. Sawada 98(1994)119-126

Ultrafiltration membrane technology for regeneration of building wastewater for reuse
T. Yokomizo 98(1994)319-326

Polyacrylonitrilic/polysulfone (PAN/PS) blend ultrafiltration (UF) membranes
Ai-lian Ling and Qing Chen 101(1995)51 -56

Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent
M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson 101(1995)155-167

Treatment of fuel oil and crude oil contaminated waters by ultrafiltration membranes
B. Tansel, J. Regula and R. Shalewitz 102(1995)301-311

Ultrafiltration and reverse osmosis in unstirred batch cell of charged solutes (protein, salts) with total retention
I. Boulanouar, S. Nicolas and B. Bariou 104(1996)83-93

Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes
A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov 104(1996)113-118

Removal of volatile organic compounds by ultrafiltration
R. Singh 104(1996)203-214

Treatment of waste water from silk degumming processes for protein recovery and water reuse
C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita 105(1996)1-9

Application of modified polysulfone membranes to the treatment of water solutions containing humic substances and metal ions
M. Kabsch-Korbutowicz and T. Winnicki 105(1996)41-49

Capillary membranes for separation of dye particles
K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki 105(1996)91-103

Membrane performance with plug screw feeder pressate: Operating conditions and membrane properties
M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy 105(1996)229-244

Treatment of paper coating colour effluents by membrane filtration
A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström 105(1996)263-276

Membranes for water production and wastewater reuse
A.G. Fane 106(1996)1-9

Ultrafiltration as a tertiary treatment: Joint research program on membranes
V. Gadani, R. Irwin and V. Mandra 106(1996)47-53

Drinking water treatment by using ultrafiltration hollow fiber membranes
S. Nakatsuka, I. Nakate and T. Miyano 106(1996)55-61

Night soil treatment system equipped with ultrafiltration
T. Misaki and K. Matsui 106(1996)63-70

Pretreatment to produce ultrapure water from reclaimed sewage
K.K. Chin 106(1996)269-272

Biomembrane wastewater treatment by activated sludge method
M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny 107(1996)83-95

Chromium(III) salts recovery process from tannery wastewaters
C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini 108(1996)183-191

Quality improvement of recycled chromium in the tanning operation by membrane processes
A. Cassano, E. Drioli, R. Molinari and C. Bertolutti 108(1996)193-203

Salt effect on the dye separation by hydrophilic membranes
K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki 108(1996)221-229

Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis
R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz 108(1996)247-253

Milk whey treatment with recovery of valuable products
G. Di Giacomo, G. Del Re and D. Spera 108(1996)273-276

Ultrafiltration plant for olive vegetation waters by polymeric membrane batteries
R. Borsani and B. Ferrando 108(1996)281-286

Influence of organic matter from waste water on the permeability of membranes
W. Reimann 109(1997)51-55

A numerical model of steady-state permeate flux during cross-flow ultrafiltration
Y. Lee and M.M. Clark 109(1997)241-251

Electrokinetic characterization of polyethersulfone UF membranes
L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani 109(1997)253-261

Ultrafiltration of agricultural waste waters with organic and inorganic membranes
W. Reimann and I. Yeo 109(1997)263-267

Ultrafiltration, polysulfone membranes, see Membranes,

-

Ultrafitration

Design of membrane separation plants using a module data base
R. Günther and J. Hapke 104(1996)119-128

Ultramembrane filtration

Coliphage rejection under ultramembrane filtration
K. Kawamura, K. Nishimura and Y. Magara 106(1996)89-97

Ultrapure water

Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production
I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova 67(1987)163-170

Ultrapure water system design considerations
P. S. Cartwright 67(1987)171-184

State of the art ultrapure water production in Japan
H. Ohya 80(1991)159-165

Simultaneous removal of DO and TOC in ultrapure water by using UV rays
T. Saitoh, H. Nagai, M. Imai, K. Nakajima and M. Tujimura 98(1994)249-255

Advanced reverse osmosis membrane modules for novel ultrapure water production process
T. Ikeda, H. Muragishi, R. Bairinji and T. Uemura 98(1994)391-400

Ultrasonic agitation

Use of ultrasonics in laboratory development tests of cupro-nickel alloys for desalination
L.J. Swartzendruber and L.H. Bennett 9(1971)387-389

Ultrasonic welded membranes

RO-module with ultrasonic welded membranes
F. Patocka, S. Fries and H. Timm 64(1987)423-430

Ultrasound

Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers
M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar 109(1997)303-313

Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers
M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar 109(1997)303-313

Ultraviolet sterilization

New improvements in ultraviolet sterilization of desalted and reuse water
J.E. Cruver and M. Jhawar 32(1980)365-371

Unesco prize for science

Acceptance speech of Prof. Robert S. Silver upon receipt of the UNESCO Prize for Science1968 for his basic work on the multi-stage flash process: completed contract for first ever MSF units for Kuwait 1960
R. S. Silver 50(1984)11-14

Unit scheduling

Economic scheduling of the UAN cogeneration plant: A preliminary optimization study
A.M. El-Nashar and M.S. Khan 85(1991)93-127

Unit size

Optimizing and planning of seawater desalination
W.F.J.M. Nooijen and J.W. Wouters 89(1992)1-20

Univalent ions

Movements of univalent ions in cellulose acetate membranes
N. Kinjo and M. Sato 27(1978)71-80

Unsteady-state electrodialysis

Fouling in steady and unsteady state electrodialysis
D.W. Thompson and A.-Y. Tremblay 47(1983)181-188

Unsteady-state modelling

The unsteady-state modelling of cross-flow microfiltration
J. W. Hunt, C. J. Brouckaert, J. D. Raal, K. Treffry-Goatley and C. A. Buckley 64(1987)431-442

Unstirred discontinuous hyperfiltration

Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results
F. Bellucci, E. Drioli and A. Pozzi 16(1975)287-301

Uranium effluent

Treatment of uranium effluent by reverse osmosis membrane
Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh 71(1989)35-44

Uranium rejection

Treatment of uranium containing effluents with reverse osmosis process
Kwanglung Lin, Minlin Chu and Muchang Shieh 61(1987)125-136

Urban development

Reuse of urban wastewaters in developing fringe areas of Metropolitan Adelaide
G. McIntosh 106(1996)355-360

Urea

Treatment by reverse osmosis of certain solutions containing two solutes, one organic and one inorganic
M. J. Clifton and R. T. Fowler 34(1980)25-34

Several engineering equations in the design of reverse osmosis plants
J. Zhou, H. Ohya and K. Matsumoto 80(1991)15-30

Vacuum desalination

Vacuum desalination using waste heat from a steam turbine
S.C. Low and J.H. Tay 81(1991)321-331

Vacuum distillation

Vacuum desalination for water purification using waste heat
J.H. Tay, S.C. Low and S. Jeyaseelan 106(1996)131-135

Vacuum flash freezing process

The state of the crystallization processes for desalting saline waters
A.J. Barduhn 5(1968)173-184

Vacuum freezing

Vacuum freezing vapor compression (Zarchin) process. Present status and future trends
M. Pachter and A. Barak 2(1967)358-367

Numerical determination of time responses of three flows heat exchanger in desalination plants
H. El-Hares 19(1976)103-112

Desalination by the improved vacuum freezing high pressure ice melting process
Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins 42(1982)141-151

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 45(1983)373

Solar desalination using the vacuum freezing ejector absorption (VFEA) process
A.M. El-Nashar 49(1984)293-319

The vacuum freezing multiple phase transformation process
C.Y. Cheng, W.C. Cheng and M.D. Yang 67(1987)139-153

Vacuum stripping

Vacuum stripping of butane from water in a packed column
J.-E. Bajolle, P.A. Rice and A.J. Barduhn 9(1971)351-366

Vapor compression

Assessment of vapor compression distillation
B.W. Tleimat, E.D. Howe and A.D.K. Laird 2(1967)287-298

Vacuum freezing vapor compression (Zarchin) process. Present status and future trends
M. Pachter and A. Barak 2(1967)358-367

Numerical determination of time responses of three flows heat exchanger in desalination plants
H. El-Hares 19(1976)103-112

Desalination through the vapour compression process in large plants
J.P. le Martret 19(1976)337-348

Reheat type distilling plant
M. Takada, S. Kikuchi and J. Gaydos 20(1977)385-390

Vapor compression evaporation for inland desalting
O.E. Kirchner 22(1977)31-40

Solar-assisted still with vapor-compression option
B.W. Tleimat, E.D. Howe and A.D.K. Laird 22(1977)41-54

Vapor compression vertical tube foam evaporation
H.H. Sephton 23(1977)299-310

Second generation low temperature vapor compression plants
D. Hoffman 23(1977)449-454

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt 30(1979)101-126

Seawater desalination: A low energy consuming solution: vapor compression *(in French)*
P. Blanc-Feraud 30(1979)469-482

Essentials on seawater desalination through vapour compression
D. Larger 31(1979)131-134, Err. 31(1979)125

Vapor compression distillation
S. J. Senatore 31(1979)135-144

A comparison of the relative economics of sea water desalination by vapour compression and reverse osmosis for small to medium capacity plants
R. Matz and U. Fisher
36(1981)137-151

Pilot and full-scale research on the vapour compression desalination process
M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa
37(1981)257-268

Vapor compression distillation with maximum use of waste heat
S.J. Senatore 38(1981)3-12

An advanced barge mounted VTE/VC for the desalination of seawater
D.K. Emmermann 38(1981)13-20

Advantages of the ejectocompression process in sea water desalination
M. Lucas and S. Hessemans
38(1981)57-63

Large scale diesel driven vapor compression units
R. Rautenbach and B. Arzt
38(1981)75-84

Desalination by vapor compression
W. Bulang 38(1981)85-97

Present and future energy aspects in VC, MED single and dual purpose desalination plants
J. Weinberg and U. Fisher
40(1982)49-61

Seawater desalting energy requirements as a function of various local conditions
A. C. F. Ammerlaan 40(1982)317-326

Mathematical model of a mechanical vapour compression evaporator. Application to seawater desalting. Part I. The model settlement
D. Aussenac, S. Domenech and M. Enjalbert 41(1982)137-169

Vapor compression distillation
S.J. Senatore 42(1982)153-161

Desaltlng water costs using waste heat from power systems combined with the VTFE and vapor compression
S.J. Senatore 44(1983)129-135

A controlled flash evaporator operated by a vapour compressor
L. Szücs 45(1983)13-14

Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant
B. Ohlemann and D.K. Emmermann
45(1983)39-47

Comparative study between vapor compression and multi effect boiling desalination systems
M. A. Darwish, K. A. Fathalah and S. E. Aly 45(1983)77-80

Computer simulations of multiple-effect FFE-VC systems for water desalination
G. Aly 45(1983)119-131

Solutions for coupling a mechanical vapour compression distiller with a multi-stage-flash evaporator
K. Genthner and M.M. El-Allawy
45(1983)143-152

Large scale desalination by vapor compression
W. Bulang 45(1983)263

Mathematical model of a mechanical-vapor compression evaporator. Application to the production of freshwater by seawater desalination. Part II. Numerical exploitation
D. Aussenac, M. Enjalbert and S. Domenech 49(1984)117-139

Comparative study between conventional and vapor compression multi-effect desalination systems
M.A. Darwish, S.E. Aly and K.A. Fathalah 49(1984)153-167

Comparative study between conventional and vapor compression multi-effect desalination systems
M.A. Darwish, S.E. Aly and K.A. Fathalah 49(1984)153-167

The mechanical vapor compression process applied to seawater desalination: A 1,500 ton/day unit installed in the nuclear power plant of Flamanville, France
M. Lucas and B. Tabourier
52(1985)123-133

The mechanical vapor compression process applied to seawater desalination: A 1,500 ton/day unit installed in the nuclear power plant of Flamanville, France
M. Lucas and B. Tabourier
52(1985)123-133

Low-temperature vapour compression and multi-effect distillation of seawater. Effects of design on operation and economics
R. Matz and Z. Zimerman
52(1985)201-216

Control in vapor compression evaporators
F.C. Standiford 59(1986)293-305

Vapour compression distillation using waste heat absorption systems
S. E. Aly 68(1988)57-68

Thermal analysis of vapor compression desalination system
M.A. Darwish 69(1988)275-295

Technical aspects of reducing desalting water costs in distillation methods
M.A. Darwish and M. Abdel-Jawad
72(1989)381-393

A novel 2500 GPD 5-effects wiped-film rotating disk vapor-compression module: Preliminary results
B. Tleimat and M. Tleimat
74(1989)289-303

Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants
M.A. Darwish, M. Abdel Jawad and G.S. Aly 78(1990)313-326

The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog
B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf 87(1992)97-107

Review of various combinations of a multiple effect desalination plant (MED) and a thermal vapour compression unit
A. Al-Radif 93(1993)119-125

Development of large capacity high efficiency mechanical vapor compression (MVC) units
Z. Zimerman 96(1994)51-58

An assessment of an ejectocompression desalination process
O.A. Hamed and K.A. Ahmed 96(1994)103-111

A new water and power combination: Vacuum vapor compression seawater distillation and natural gas fuel cells
R.L. Campbell and T.H. Emerson 99(1994)423-445

Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream
J.P. Brouwer, M.M.C. Alkemade and G. Bierman 101(1995)211-218

A study of a new thermal vapor compression/multi-effect stack (TVC/MES) low temperature distillation system
S.E. Aly 103(1995)257-263

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat 107(1996)111-119

Thermovapor compression desalters: Energy and availability — Analysis of single- and multi-effect systems
N.M. Al-Najem, M.A. Darwish and F.A. Youssef 110(1997)223-238

Vapor desublimation

Desalination by the improved vacuum freezing high pressure ice melting process
Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins 42(1982)141-151

Vapor flow

Influence of spray density on coefficient of gas dynamic resistance for tube bundles of different configuration
V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub 74(1989)383-389

Vapor formation

Liquid superheat for vapour formation with and without presence of solid surface
M. Stefanovic and N. Afgan 10(1972)17-26

Vapor permeation

Module and process design for vapor permeation
R. Rautenbach and U. Meyer-Blumenroth 77(1990)295-322

Membrane separation of low volatile organic compounds by pervaporation and vapor permeation
A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura 90(1993)209-233

Vapor pressure

Vapor pressures of binary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)139-148

Vapor pressures of ternary aqueous solutions of NaCl, KCl, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)149-155

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi 2(1967)271-278

Some physical properties of sea water in various concentrations
W.H. Emerson and D.T. Jamieson 3(1967)213-224

Vapor recompression

The Courtraulds desalination process
D.C.F. Pratt 42(1982)37-45

Vapor recompression evaporation

Direct contact vapor recompression evaporation desalination process. Economic assessment
K.L. Pinder 4(1968)45-54

Vapor shear

The effect of vapour shear and condensate drainage in condenses using roped tubes
J. Cunningham and M. Bahjernejad 45(1983)135-142

Vapor thermo-compression

Energy savings in distillation plants by using vapor thermo-compression
S. E. Aly 49(1984)37-56

Vapor-compression distillation

On the feasibility of large vapor-compression distillation units
Y.M. El-Sayed 107(1996)13-27

Vapor-liquid equilibrium

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results
T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka 21(1977)11-21

Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions
T. Hakuta, T.J. Edwards and J.M. Prausnitz 21(1977)23-33

Vapor-liquid equilibrium in capillary distillation
G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza 81(1991)161-187

Vaporization

Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel *(in French)*
J. Huyghe, G. Barois, A. Michel and H. Mondin 4(1968)209-219

Freezing processes — The standard of the future — An update
P.J. Schroeder 33(1980)299-310

Studies on the vaporization mechanisms of organic pollutants in an evaporator
K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty 103(1995)177-187

Vapour compression

Thermal analysis of vapor compression desalination system
M.A. Darwish 69(1988)275-295

Development of a plate evaporator/condenser for the mechanical vapour compression process
N.-E. Clausen 81(1991)399-406

Mechanical vapour compression to treat oil field produced water
A. Koren and N. Nadav 98(1994)41-48

Mechanical vapour compression desalination plants - A case study
J.M. Veza 101(1995)1-10

Mechanical vapour compression desalination plants - A case study
J.M. Veza 101(1995)1-10

ENEL experience of seawater desalination plants
A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi 108(1996)345-355

Vapour generation

An experimental study of flash evaporation from liquid pools
S. Gopalakrishna, V.M. Purushothaman and N. Lior 65(1987)139-151

Variable power input

Unsteady state operation of a reverse osmosis desalination unit
E.R. Lising and R. Alward 11(1972)261-268

Variable speed turbo couplings

Variable speed turbo couplings used for speed control of pumps for seawater desalination plants
H. Burkard 82(1991)107-117

Vegetable extract-additive

Evaporation for desalination: scale prevention and removal
D.F. Othmer 1(1966)194-198

Velocity field

The shape of the cell and the velocity field in electrodialysis desalination
D. Pnueli 7(1970)309-322

Velocity profile

Velocity profile caused by a high porosity spacer between parallel plates (membranes)
W.W. Focke and P.G.J.M. Nuijens 49(1984)243-253

Venting systems

Performance of materials used for the venting system in WED's desalination plants (MSF)
E.A. Al-Sum, A. Al-Radif and S. Aziz 93(1993)517-527

Verbal judgment

A comprehensive formal approach to the evaluation of bids for desalination plants using verbal judgment
R. Kenarangui, A. Husseiny and Z. Sabri 33(1980)311-331

Vertical density stratification

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
M. Bouscher, P. Pnueli and Y. Zvirin 49(1984)17-36

Vertical flashing flow

Development of direct contact flash distillation concepts
P.T. Walker, I. Newson and K.D.B. Johnson 2(1967)196-206

Vertical flow field

Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows
M. Bouscher, D. Pnueli and Y. Zvirin 36(1981)307-333

Vertical preheaters

Use of double-fluted tubes in vertical preheaters and condensers of MSF distillation plants
L. Awerbuch and A.N. Rogers 17(1975)121-130

Vertical tube evaporation

Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion
C.J. Huang, H.M. Lee and A.E. Dukler 6(1969)25-56

Application of a design computer code to determine the off-design characteristics of the Gibraltar vertical tube evaporator desalination plant
D.C. Guneratne 13(1973)343-358

Upflow vertical tube evaporation of sea water with interface enhancement: Process development by pilot plant testing
H.H. Sephton 16(1975)1-13

Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant
HH.L. Fong, C.J. King and H.H. Sephton 16(1975)15-38

Vapor compression vertical tube foam evaporation
H.H. Sephton 23(1977)299-310

Liquid film distributors for vertical tube evaporation desalination plants
M. Beccari, A.C. di Pinto and L. Spinosa 29(1979)295-310

A test center for thermal seawater desalination plants
J. Hapke and K. Osterholt 30(1979)101-126

Vertical tube foam evaporation for fresh water production using power plant waste-heat
H.H. Sephton 31(1979)187-195

Vertical tube foam evaporation for water desalination
H.H. Sephton 42(1982)27-35

Desaltlng water costs using waste heat from power systems combined with the VTFE and vapor compression
S.J. Senatore 44(1983)129-135

Seawater desalination with very low energy consumption
L. Cavalieri and G. Nasser 44(1983)143-151

Developments in vertical tube evaporation
M. Bertuzzi, M. Polla and P. Tiraboschi 52(1985)135-143

Studies on nucleate boiling of sodium chloride solutions at atmospheric and sub-atmospheric pressures
P. K. Tewari, R. K. Verma, M. P. S. Ramani and S. P. Mahajan 52(1985)335-344

Vertical tube evaporators

Large long-tube vertical evaporators for sea water distillation
M. Schaal, F.S. Aschner and D. Hasson 10(1972)67-93, Err. 10(1972)220

Construction and initial operation of the VTE/MSF module
C. Grua 14(1974)1-10

Calcium sulphate scaling in falling film evaporators
T.D. Hodgson, M.N. Elliot and T.W.J. Jordan 14(1974)77-91

Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant
H.L. Fong, C.J. King and H.H. Sephton 16(1975)15-38

Experience with a vertical tube evaporator with a fiberglass shell *(in Spanish)*
E. Latapí Fox 19(1976)25-34

RF-FF VTE evaporator
W. Nishimoto 22(1977)1-11

Geothermal desalting at the East Mesa test site
W.J. Boegli, S.H. Suemoto and K.M. Trompeter 22(1977)77-90

Experiences on VTE distillation plants in Japan
H. Satone, S. Funahashi and S. Inoue 22(1977)169-179

Vapor compression vertical tube foam evaporation
H.H. Sephton 23(1977)299-310

A review of new developments in desalination by distillation processes
A.W. Veenman 27(1978)21-39

Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators
J. J. Schröder, P. Fast and W. Sander-Beuermann 31(1979)19-34

The VTE boiler: an advanced thermal system for the desalination of sea water
I. Kamal and C.H. Hughes 31(1979)533-544

An advanced barge mounted VTE/VC for the desalination of seawater
D.K. Emmermann 38(1981)13-20

Industrial operating experience of more than three years with a 1440 m^3/day Snamprogetti VTE
P. Tiraboschi 38(1981)21-28

Performance tests on a vertical tube evaporator
B. Kunst 38(1981)149

Entrainment-tests on VIFE
K.G. Plassmeier 38(1981)153154

Combined MSF/VTE-modules for hybrid thermal seawater desalination plants
J. Hapke and B. Uckermann 39(1981)373-384

Design, construction and operation of a combined MSF/VTE-test evaporator
J. Hapke and A. Mader 45(1983)35-36

Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant
B. Ohlemann and D.K. Emmermann 45(1983)39-47

Process and layout design of a combined MSF/VTE plant
J. Hapke and B. Uckermann 45(1983)113-114

Five years experience in VTE industrial operations and their design improvements
P. Tiraboschi 45(1983)321-328

Energy savings in distillation plants by using vapor thermo-compression
S. E. Aly 49(1984)37-56

Vertical tube foam evaporators

Vapor compression distillation
S.J. Senatore 42(1982)153-161

Virus-free filtrate

Coliphage rejection under ultramembrane filtration
K. Kawamura, K. Nishimura and Y. Magara 106(1996)89-97

Viscoelastic model

A viscoelastic model for initial flux decline through reverse osmosis membrane
Y. Kurokawa, M. Kurashige and N. Yui 52(1984)9-14

Viscosity

Thermodynamic properties of sea water and its concentrates
B.M. Fabuss and A. Korosi 2(1967)271-278

Physical properties of sea water solutions: Viscosity
J.D. Isdale, C.M. Spence and J.S. Tudhope 10(1972)319-328

Viscosity of sea water solutions
S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley 13(1973)37-51

Viscosity of sea water solutions
S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley 13(1973)37-51

Prediction of the density and viscosity of seawater, its concentrates and other multicomponent solutions using the Tammann-Tait-Gibson (TTG) model
J. V. Leyendekkers 29(1979)263-274

VTE

An advanced barge mounted VTE/VC for the desalination of seawater
D.K. Emmermann 38(1981)13-20

VTE evaporator

RF-FF VTE evaporator
W. Nishimoto 22(1977)1-11

Wash separator columns

Behavior of a freely draining rectangular hydraulic piston wash separator
F.O. Mixon 7(1970)229-243

Spray freezer and pressurized counterwasher for freeze desalination
W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone 14(1974)249-262

Wash separator performance

Analytical solution of a sink model of a two dimensional counterwasher
N.H. Kemp 12(1973)127-139

Wash separators

Experimental study of slurry separators for use in desalination
J. Shwartz and R.F. Probstein 6(1969)239-266

Waste concentration

Waste concentration vs. evaporation ponds for reverse osmosis reject water. A case study
G.F. Leitner 44(1983)31-38

Waste discharge

Second international congress on marine pollution and waste discharge into the sea
E. Rolle 15(1974)141-142

Waste disposal

Milk whey treatment with recovery of valuable products
G. Di Giacomo, G. Del Re and D. Spera 108(1996)273-276

Waste heat

Humidification-dehumidification desalination process using waste heat from a gas turbine
H.T.A. El-Dessouky 71(1989)19-33

Vacuum desalination using waste heat from a steam turbine
S.C. Low and J.H. Tay 81(1991)321-331

Concentration of saline produced water from coalbed methane gas wells in a multiple-effect evaporator using waste heat from the gas compressor and compressor drive engine
L.V. Sadler and O. George 101(1995)169-176

Vacuum desalination for water purification using waste heat
J.H. Tay, S.C. Low and S. Jeyaseelan 106(1996)131-135

Waste heat boiler

Design of waste heat boiler for desalination-gas turbine co-generation plant
A. M. Mubarak and H. T. El-Dessouky 55(1985)145-168

Waste heat recovery

Synthesis of thermal desalination processes: Part I. Multistage flash distillation system (MSF)
N. J. Scenna 64(1987)111-122

Synthesis of thermal desalination processes. Part II. Multi effect evaporation
N.J. Scenna 64(1987)123-135

Analysis of a diesel dual plant
S. E. Aly 64(1987)137-150

Feasibility prediction of potable water production using waste heat from refuse incinerator hooked up at Stirling cycling machine
S. Abdalla and S.H. Yacoub 64(1987)491-500

The Ebeye desalination project — Total utilization of diesel waste heat
W.E. Toelkes 66(1987)59-68

High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator
T. Michels and F. Murat 66(1987)69-74

Vapour compression distillation using waste heat absorption systems
S. E. Aly 68(1988)57-68

Waste heat utilization

vapor compression distillation with maximum use of waste heat
S.J. Senatore 38(1981)3-12

Waste heat powered reverse osmosis plants
R.A. Tidball and R. Kadaj 39(1981)137-145

Usability of low temperature waste heat for sea water desalination
R. Saari 39(1981)147-158

Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys
S. Toyama, Y. Nakashima and M. Sato 40(1982)297-309

Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation
R. Rautenbach and B. Arzt 44(1983)121-128

Desaltlng water costs using waste heat from power systems combined with the VTFE and vapor compression
S.J. Senatore 44(1983)129-135

Coupling of a power plant with a low temperature multi-effect desalination plant
L. Awerbuch, A. Maddagiri, F. E. Swart and A. N. Rogers 44(1983)177-188

Gas turbines in desalination plants
F. Pacini 45(1983)281-288

A new distillation procedure for seawater desalination based on the regeneration principle *(in German)*
K.-H. Steil 45(1983)303-313

Gas turbine waste heat utilization for distillation
R. Rautenbach and B. Arzt 52(1985)105-122

Waste minimalization

Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes
M. Perry and C. Linder 71(1989)233-245

Waste water

An iIntegrated industrial waste water treatment system using electroflotation and reverse osmosis
H.P. Roth and P.V. Ferguson 23(1977)49-63

RO applications in wastewater reclamation for re-use
T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi 23(1977)65-76

Pilot plant test of an activated sludge ultrafiltration combined process for domestic wastewater reclamation
M. Arika, H. Kobayashi and H. Kihara 23(1977)77-86

Electrodialysis in advanced waste water treatment
E. Korngold, K. Kock and H. Strathmann 24(1978)129-139

Electrodialysis of effluents from treatment of metallic surfaces
S. Itoi 28(1979)193-205

Difficulties encountered in executing and running of waste water plants in developing countries
M. Hares and M.A. Dayem 30(1979)175-185

Experience with plate-and-frame ultrafiltration and hyperfiltration systems for desalination of water and purification of waste water
W. K. Nielsen, R. F. Madsen and O. J. Olsen 32(1980)309-326

Electrodialytic recovery process of metal finishing waste water
S. Itoi, I. Nakamura and T. Kawahara 32(1980)383-389

Applications of reverse osmosis to complex industrial wastewater treatment
C.S. Slater, R.C. Ahlert and C.G. Uchrin 48(1983)171-187

Hyperfiltration of surfactants containing solutions from the plating industry
E. Staude, W. Assenmacher and H. Hoffmann 49(1984)321-333

Treatment of highly fouling waste waters with tubular membrane systems
S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru 49(1984)347-355

Recovery of acid from wastewater by electrodialysis
K. Urano, T. Ase and Y. Naito 51(1984)213-226

The application of MEMS flash in reuse of alkalinous waste water
Hong Zhang, Xuanrong Zheng and Jifang Lin 56(1985)121-130

Wastewater recycle in the plating industry using brackish water reverse osmosis elements
K. Imasu 56(1985)137-142

Demineralization of a molasses distillery waste water
F.G. Neytzell-de Wilde 67(1987)481-493

Treated wastewaters as a growing water resource for agriculture use
I.S. Al-Mutaz 73(1989)27-36

An experimental study on membrane distillation-crystallization for treating waste water in taurine production
Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu 80(1991)235-242

Integrated waste water treatment by coupled bioreactor and membrane system
A. Vaid, C. Kopp, W. Johnson and A.G. Fane 83(1991)137-143

Development of non-cellulosic membranes for wastewater treatment
A.S. Bal, C.G. Malewar and A.N. Vaidya 83(1991)325-330

Application of an austenitic nitrogen-alloyed 6Mo stainless steel for seawater desalination (RO) and waste water treatment
M. Jasner 84(1991)335-348

Optimization of the ultrafiltration of latex wastewaters
M. Bodzek and K. Konieczny 94(1994)289-306

Waste water treatment by a combination of bioreactor and nanofiltration
R. Rautenbach and R. Mellis 95(1994)171-188

Organic waste water treatment by activated sludge process using integrated type membrane separation
O. Futamura, M. Katoh and K. Takeuchi 98(1994)17-25

Treatment of wastewater and sludge by a catalytic wet oxidation process
Y. Harada and K. Yamasaki 98(1994)27-39

Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system
K. Ishiguro, K. Imai and S. Sawada 98(1994)119-126

Treatment of wheat starch waste water by a membrane combined two phase methane fermentation system
C. Yanagi, M. Sato and Y. Takahara 98(1994)161-170

Trends in domestic waste water treatment in Sweden
B. Ericsson and B. Hallmans 98(1994)259-263

Ultrafiltration membrane technology for regeneration of building wastewater for reuse
T. Yokomizo 98(1994)319-326

Hybrid processes involving membranes for the treatment of highly organic/inorganic contaminated waste water
R. Rautenbach and R. Mellis 101(1995)105-113

Concentration of saline produced water from coalbed methane gas wells in a multiple-effect evaporator using waste heat from the gas compressor and compressor drive engine
L.V. Sadler and O. George 101(1995)169-176

Nanofiltration of salt solutions and landfille leachate
K. Linde and A.-S. Jönsson 103(1995)223-232

Gel permeation: A means to characterize wastewater and residual dissolved organic matter in effluents
G. Crozes, B. Capdeville and A. Moro 106(1996)213-224

Reuse of treated wastewater — A case study in Peru
B. Schoppmann 106(1996)225-231

Evaluation of toxic substances in effluents from a wastewater treatment plant
Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri 106(1996)255-261

Localized treatment and reuse of wastewater: Science, technology and management
G. Ho 106(1996)291-294

Environmental requirements for the disposal of effluent from wastewater disposal systems
G. Middle 106(1996)323-329

Electroplating rinse waste water treatment by ion exchange
I. Dobrevsky, M. Dimova-Todorova and T. Panayotova 108(1996)277-280

Use of MnO_2 as a dynamic membrane with crossflow microfiltration: Slow membraning technique
M.H. Al-Malack and G.K. Anderson 109(1997)15-24

Modeling osmotic pressures for aqueous solutions for 2-1 and 2-2 electrolytes
D. Van Gauwbergen, J. Baeyens and C. Creemers 109(1997)57-65

Waste water treatment using reverse osmosis: Real osmotic pressure and chemical functionality as influencing parameters on the retention of carboxylic acids in multi-component systems
V. Tödtheide, C. Laufenberg and B. Kunz 110(1997)213-222

Waste water, Agriculture

see Agriculture, waste water reuse in

Waste water, automobile industry

Some experiences on waste water re-use for automobile works
Y. Koike, T. Yamadera and S. Tsukahara 23(1977)141-150

Waste water, chromium

Application of cross-flow electro-microfiltration in chromium wastewater treatment
C. Visvanathan, R. Ben Aim and S. Vigneswaran 71(1989)265-276

Waste water, coal gasification

Dynamically formed hydrous zirconium (IV) oxide—polyelectrolyte membranes V. Non-homogeneous poly(acrylic acid-convinyl alcohol) membranes: Rejection and flux properties and the treatment of coal gasification waste water
A.J. Van Reenen and R.D. Sanderson 72(1989)319-328

Waste water, coal mines

Treatment and disposal of saline wastewater from coal mines in Poland
B. Ericsson and B. Hallmans 98(1994)239-248

Waste water, cyanide

Treatment of concentrated cyanide wastewater
M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka 98(1994)345-352

Waste water detoxification

Wastewater detoxification of organic and inorganic toxic compounds with solar collectors
P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato 108(1996)213-220

Waste water, domestic

The separation of shower and laundry wastewater using Zr-PAA RO membranes
A.M. El-Nashar 23(1977)1-18

Pilot plant test of an activated sludge ultrafiltration combined process for domestic wastewater reclamation
M. Arika, H. Kobayashi and H. Kihara 23(1977)77-86

Water reuse with granular activated carbon
K. Urano 23(1977)533-540

Process options for nitrogen and phosphorus removal in domestic wastewater
B. Ericsson 98(1994)105-118

Waste water, electocoat paint

Application of reverse osmosis to automotive electrocoat paint wastewater recycling
J. E. Anderson, W. S. Springer and G. G. Strosberg 36(1981)179-188

Waste water, electrocoat paint

Application of reverse osmosis to automotive electrocoat paint wastewater recycling
J. E. Anderson, W. S. Springer and G. G. Strosberg 36(1981)179-188

Waste water, evaporation

The fluidized bed technique in the evaporation of wastewaters with severe fouling/scaling potential - Latest developments, applications, limitations
R. Rautenbach, C. Erdmann and J.S. Kolbach 81(1991)285-298

Waste water, industrial

Desalting technologies for wastewater treatment
R.F. Probstein and D.J. Goldstein 19(1976)525-532

Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light
H. Sliger and R. Quinn 23(1977)37-47

An iIntegrated industrial waste water treatment system using electroflotation and reverse osmosis
H.P. Roth and P.V. Ferguson 23(1977)49-63

Operation of reverse osmosis process for industrial waste water reclamation
Y. Kojima and M. Tatsumi 23(1977)87-95

Desalination in the reuse of industrial waste water
H. Ogasawara, Y. Kunisada, H. Kaneda and M. Hirai 23(1977)113-122

Water reuse with granular activated carbon
K. Urano 23(1977)533-540

Pressure driven membrane processes in the treatment of industrial effluents
R. Matz, E. Zisner and G. Herscovici 24(1978)113-128

Membrane processes used for the treatment of industrial effluents
P. Mappelli, M. Santori, A. Chiolle and G. Gianotti 24(1978)155-173

Chemical and physical degradation of some cation-exchange resins used in nitrate recovery from wastewaters
L. Pawlowski, J. Barcicki and T.Z. Winnicki 28(1979)243-252

Membrane filtration of NSSC-waste liquor
G. Jonsson and S. Kristensen 32(1980)327-349

Hyperfiltration for recycle of 82°C textile wash water
C.A. Brandon 32(1980)409

Industrial wastewater treatment for reuse with reverse osmosis
A.M. El-Nashar 32(1980)411

Ultrafiltration processes for pollution control and chemical reuse in the tanning industry
E. Drioli and B. Cortese 34(1980)131-139

Gas turbines in desalination plants
F. Pacini 45(1983)281-288

Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents
B. Chakravorty, R. N. Mukherjee and S. Basu 46(1983)353-360

Application of membrane separation processes to the treatment of industrial effluents for water reuse
G. R. Groves 47(1983)277-284

Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse
G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson 47(1983)305-312

Studies on the application of RO in treatment of rayon plant efffluent
S. Basu and S. Moulik 47(1983)335-342

Desalination and reuse of industrial wastewater by electrodialysis
K. Sato, S. Kobayashi and S. Okado 47(1983)363-373

Applications of reverse osmosis to complex industrial wastewater treatment
C.S. Slater, R.C. Ahlert and C.G. Uchrin 48(1983)171-187

Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration
C.V. Devmurari and M.V. Chandorikar 48(1983)331-337

Use of wastewater effluent in agriculture
W.J. Oswald 72(1989)67-80

Possibilities of utilizing municipal and industrial wastewater effluents to condition soil
K. Puskas and I. Esen 72(1989)125-132

Desalination and industrial waste water treatment with the ROCHEM Disc Tube Module (DT)
T.A. Peters 83(1991)159-172

Removal of industrial latex dispersions from waste waters using microporous alumina membranes
P. Mikulásek and J. Cakl 95(1994)211-220

Application of concentrator on the treatment of industrial waste water
M. Miura and K. Harada 98(1994)375-381

Treatment of paper coating colour effluents by membrane filtration
A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström 105(1996)263-276

Small-waste technology of processing industrial waste water on the basis of thermal demineralization
A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina 108(1996)361-364

Waste water, industry

High quality water from refinery waste
P. Gioli, G. E. Silingardi and G. Ghiglio 67(1987)271-282

Waste water, laboratory

Re-use of treated laboratory effluents by a treatment system incorporating the 'Sirotherm' desalination process
T. Maeda 23(1977)161-170

Waste water legislation

Regulatory framework in South Australia and reclaimed water reuse options and possibilities
N.M. Kayaalp 106(1996)317-322

Waste water management

The role of membrane technology in industrial water and wastewater management
O.O. Hart and R.C. Squires 56(1985)69-87

Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia
J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli 75(1989)379-393

Principles and planning opportunities for community scale systems of water and waste management
P. Newman and M. Mouritz 106(1996)339-354

Reuse of urban wastewaters in developing fringe areas of Metropolitan Adelaide
G. McIntosh 106(1996)355-360

Waste water, metal plating

An experience on re-use of waste water discharged from metal plating shop
Y. Murai, T. Yamadera and Y. Koike 23(1977)97-104

Waste water, metal-cleaning

Recycling of detergents after ultrafiltration of cleaning solutions
H. Paul 41(1982)313-325

Waste water, mining

Desalination and utilization of saline mine waters in Poland
J. Kepinski 32(1980)399-408

Waste water, municipal

-

Role of ion-exchange desalination in municipal water supplies
D.E. Weiss 1(1966)107-128

Conjunctive use of desalination and wastewater reclamation in water resource planning
O.K. Buros 19(1976)587-594

Pretreatment and cleaning of hyperfiltration (reverse osmosis) membranes in municipal wastewater renovation
G. Belfort 21(1977)285-300

Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light
H. Sliger and R. Quinn 23(1977)37-47

Water re-use in fiber dyeing industry
G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi 23(1977)133-140

Reuse of drainage from an office building
S. Iwai, T. Kitao, H. Ohmori and K. Inujima 23(1977)171-181, Err. 25(1978)215

Water re-use by ultrafiltration in individual building
J. Saito and S. Fujii 23(1977)183-193

An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents
B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak 25(1978)45-59

A water treatment and reuse program in Riyadh, Saudi Arabia
F.X. Floyd 30(1979)321-

Development of water re-use treatment system for municipal wastewater
T. Sawa, M. Kubota, S. Takahashi and Y. Masaki 32(1980)373-382

Waste water recycling by ion-exchange: I. Complete desalination
Y. Egozy, E. Korngold and N. C. Daltrophe 33(1980)123-137

Waste water recycling by ion-exchange: II. Partial desalination
Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun 33(1980)333-346

Chemical treatment for reuse of wastewater effluents in Saudi Arabia
H. A. Kharajian, R. H. Siddiqi and S. Farooq 38(1981)437-438

Health and safety aspects of irrigation of raw eaten food crops with reused water
B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
39(1981)491-502

Membrane filtration for the reuse of city waste water
O.J. Olsen and U.H. Haagensen
47(1983)257-265

Fouling of RO membranes in wastewater applications
M.L. Arora and K.M. Trompeter
48(1983)299-319

Reuse of tertiary municipal wastewater effluent for irrigation of raw-eaten food crops: A five year field study
B. Sheikh, R.S. Jaques and R.P. Cort
67(1987)245-254

Health considerations in using treated industrial and municipal effluents for irrigation
M.Y. Abdulraheem 72(1989)81-113

Possibilities of utilizing municipal and industrial wastewater effluents to condition soil
K. Puskas and I. Esen
72(1989)125-132

Municipal wastewater renovation by reverse osmosis. State of the art
A.H. Ghabris, M. Abdel-Jawad and G.S. Aly 75(1989)213-240

Slow sand/nanofiltration treatment for secondary treated wastewater
C.B. Cluff 88(1992)53-67

Reverse osmosis treatment of municipal sewage effluent for industrial reuse
M. Wethern and W. Katzaras
102(1995)293-299

Desalination of municipal wastewater for horticultural reuse: Process description and evaluation
D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas 103(1995)1-10

Water reclamation fuels economic growth in Harlingen, Texas. Reclamation of municipal wastewater for industrial process use
G. Filteau, C. Whitley and I.C. Watson
103(1995)31-38

Implementation of the Cracow municipal wastewater reclamation system for industrial water reuse
J. Kurbiel, K. Zeglin and S.M. Rybicki
106(1996)183-193

Recycling nutrients from municipal wastewater
B.H. Boyden and A.A. Rababah
106(1996)241-246

Industrial use of fresh water vis-a-vis reclaimed municipal wastewater in Madras, India
C.A. Sastry and S. Sundaramoorthy
106(1996)443-448

Pretreatment of the municipal wastewater feed for reverse osmosis plants
M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari
109(1997)211223

Waste water, nickel plting

Electrodialytic recovery process of metal finishing waste water
S. Itoi, I. Nakamura and T. Kawahara
32(1980)383-389

Waste water, Olive

Remediation of groundwater contaminated by olive processing waste
C.J. Martin 88(1992)253-263

Ultrafiltration plant for olive vegetation waters by polymeric membrane batteries
R. Borsani and B. Ferrando
108(1996)281-286

Waste water, phenolic

A study of emulsified liquid membrane treatment of phenolic waste water
Y.-C. Chang and S.-P. Li
47(1983)351-361

Total organic carbon reduction of phenol-containing wastewaters by oxidation techniques
G.A. Al-Enezi, H. Shaban and M.S.E. Abdo 95(1994)1-10

Waste water, phenolic resin

Treatment of wastewater from phenolic resin process by pervaporation
M. Kondo and H. Sato
98(1994)147-154

Waste water, plating rinse

Aspects of microfiltration and reverse osmosis in municipal wastewater reuse
S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider
106(1996)25-29

Total removal of heavy metal from mixed plating rinse wastewater
N. Sapari, A. Idris and N.H.A. Hamid
106(1996)419-422

Waste water pretreatment

Pre-treatment and desalination of mine drainage water in a pilot plant
J. Sikora, C-H. Hansson and B. Ericsson 75(1989)363-378

Waste water, pump mill

A trial of high performance anaerobic treatment on wastewater from a kraft pulp mill
K. Minami 98(1994)273-283

Waste water purification

Separation of multicomponent solutions using reagent ultrafiltration
Y.I. Dytnersky, K.A. Volcheck and N.B. Polyanskaya 81(1991)273-279

Waste water re-use

A method of using irrigation drainage water for power plant cooling
H.H. Sephton and G. Klein
19(1976)257-268, Err. 21(1977)234

Satellite wastewater reclamation plants: How to get what you bargain for
S.X. McHaney 88(1992)215-223

Waste water re-use, health and safety

Health and safety aspects of irrigation of raw eaten food crops with reused water
B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
39(1981)491-502

Waste water re-use, Islamic philosophy

Philosophy of water reuse in Islamic perspective
S. Farooq and Z.I. Ansari
39(1981)273-281

Waste water reclamation

An evaluation of brine recycling and wastewater reclamation by R/O and vapor compression
N. Hasbani 56(1985)37-46

Wastewater reclamation and reuse in Europe, Middle East and North Africa
A.A. Al-Khafaji and D.A. Howarth
75(1989)289-314

Developing and financing new water facilities: Alternatives for desalination and reclamation plants
N.C. Smith 87(1992)85-95

Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse
G.T. Seo, Y. Suzuki and S. Ohgaki
106(1996)39-45

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat
107(1996)111-119

Large scale operating experience in membrane systems for water and waste water reclamation
N. Randles 108(1996)205-211

Waste water recycle

Wastewater recycle in the plating industry using brackish water reverse osmosis elements
K. Imasu 56(1985)137-142

Removal of nitrate ions acidic wastewater by Donnan dialysis involving tabular exchange membranes
G. Wisniewska and T. Winnicki
56(1985)161-173

Waste water recycling

Reverse osmosis relevant to India
D.J. Mehta, V.P. Pandya and A.V. Rao 20(1977)403-413

Water re-use in fiber dyeing industry
G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi 23(1977)133-140

Reuse of drainage from an office building
S. Iwai, T. Kitao, H. Ohmori and K. Inujima 23(1977)171-181, Err. 25(1978)215

Water re-use by ultrafiltration in individual building
J. Saito and S. Fujii 23(1977)183-193

Planning to meet future water requirements by Orange County, California
P. Allen, W. Whittenberg and D. Argo
23(1977)471-483

Water re-use and conservation in the Virgin Islands
O.K. Buros 23(1977)485-494

Membrane technology for water re-use application
K.C. Channabasappa
23(1977)495-514

On the optimization of systems with water reuse
Y.M. El-Sayed 23(1977)515-525

New water reuse horizons
R.D. Heaton 23(1977)527-531

Water reuse with granular activated carbon
K. Urano 23(1977)533-540

Application of high-temperature hyperfiltration to unit textile processes for direct recycle
C.A. Brandon and M. Samfield
24(1978)97-112

Trends in Libyan desalination and water reuse policy
H. El-Hares and M. Aswed
30(1979)163-173

A water treatment and reuse program in Riyadh, Saudi Arabia
F.X. Floyd 30(1979)321-

The role of desalination in water reuse
O. K. Buros 32(1980)305-308

Desalination and the reuse of agricultural drainage waters in Saudi Arabia
A.M. Al-Taweel, A. Bushnak and W. Bawarith 32(1980)341-352

Desalination and utilization of saline mine waters in Poland
J. Kepinski 32(1980)399-408

Waste water recycling by ion-exchange: I Complete desalination
Y. Egozy, E. Korngold and N. C. Daltrophe 33(1980)123-137

Waste water recycling by ion-exchange: II. Partial desalination
Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun
33(1980)333-346

Evaluation of an ion-exchange system regenerated with seawater for the increase of product recovery of reverse osmosis brackish water plant
M. Wilf, M. Konstantin and A. Chencinsky 34(1980)189-197

Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration
C. A. Brandon, D. A. Jernigan, J. L. Gaddis and H. G. Spencer
39(1981)301-310

Effect of the energy crisis on water desalination and waste water recycling by ion exchange
Y. Egozy and E. Korngold
40(1982)181-189

Reverse osmosis treatment and reuse of textile dyehouse effluents
K. Treffry-Goatley, C. A. Buckley and G. R. Groves 47(1983)313-320

Make-up water treatment at thermal power plants and multiple waste water reuse
O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
47(1983)321-325

Desalination and reuse of industrial wastewater by electrodialysis
K. Sato, S. Kobayashi and S. Okado
47(1983)363-373

Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams
J. J. Porter and G. A. Goodman
49(1984)185-192

Waste water recycling technology using a rotary disk module
N. Ohkuma, M. Ohnishi and Y. Okuno
98(1994)49-58

Recycling of waste water from buildings by application of membrane technology
T. Okada and O. Oba
98(1994)335-341

Waste water reuse

The application of MEMS flash in reuse of alkalinous waste water
Hong Zhang, Xuanrong Zheng and Jifang Lin 56(1985)121-130

Utilization of treated wastewaters and sewage sludge in agriculture in Tunisia
A. Bahri 67(1987)233-244

High quality water from refinery waste
P. Gioli, G. E. Silingardi and G. Ghiglio 67(1987)271-282

Heavy metals in wastewater to the Nile
S. El-Rafei, S. El-Shawarby and F.A. Fahim 67(1987)355-362

The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water
A.E. Simpson and C.A. Buckley 67(1987)409-429

Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions
G. Hamer, T. Egli and N. Al-Awadhi 72(1989)31-65

Wastewater reclamation and reuse in Europe, Middle East and North Africa
A.A. Al-Khafaji and D.A. Howarth 75(1989)289-314

Membranes for water production and wastewater reuse
A.G. Fane 106(1996)1-9

Domestic wastewater reuse using a submerged membrane bioreactor
H. Kishino, H. Ishida, H. Iwabu and I. Nakano 106(1996)115-119

Opportunities for decentralized treatment, sewer mining and effluent re-use
R. Butler and T. MacCormick 106(1996)273-283

Aerobic treatment units (ATUs): Appropriate technology for on-site wastewater treatment and re-use
G. Ivery 106(1996)295-303

Wastewater reuse — Limitations and possibilities
R.E. Eden 106(1996)335-338

An integrated plan for town-enterprise wastewater reuse and wetland strategy: A case study
Qixing Zhou, Limei Dai and R.W. Bell 106(1996)439-442

Purification of textile wastewater effluents by a combined Fenton process and ion exchange
Sheng H.Lin and Ming L. Chen 109(1997)121-130

Waste water, reverse osmosis

Waste concentration vs. evaporation ponds for reverse osmosis reject water. A case study
G.F. Leitner 44(1983)31-38

Waste water, textiles , see Textile industry

-

Waste water treatment

Hollow fiber permeators in industrial waste stream separations
W.P. Cooke 7(1969)31-46

Reclamation of irrigation field drainage water
J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto 19(1976)153-160

Phenol-selective highly resistant RO membranes made from PVA for the purification of toxic industrial wastes
S. Peter, N. Hese and R. Stefan 19(1976)161-167

A method of using irrigation drainage water for power plant cooling
H.H. Sephton and G. Klein 19(1976)257-268, Err. 21(1977)234

Large scale water reclamation by reverse osmosis
T.J. Larson and D.G. Argo 19(1976)421-432

Desalination of agricultural drains in Mexicali, B.C. *(in Spanish)*
R. Manjarrez and I.G. de Cosío 19(1976)499-504

Reverse osmosis to achieve water control and recycle
R.T. Heizer and C.E. Plock 20(1977)61-69

Large-scale reverse osmosis processing of metal finishing rinse waters
S.S. Kremen, C. Hayes and M. Dubos 20(1977)71-80

An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon
S. Iwai, H. Ohmori and T. Tanaka 23(1977)29-36, Err. 25(1978)215

Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light
H. Sliger and R. Quinn 23(1977)37-47

Alclose reverse osmosis system
S. Koga and K. Ushikoshi 23(1977)105-112

Water re-use in fiber dyeing industry
G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi 23(1977)133-140

Re-use of treated laboratory effluents by a treatment system incorporating the 'Sirotherm' desalination process
T. Maeda 23(1977)161-170

Reuse of drainage from an office building
S. Iwai, T. Kitao, H. Ohmori and K. Inujima 23(1977)171-181, Err. 25(1978)215

Marketing new technology for solving water treatment problems: One company's experience
H.E. Green 23(1977)321-330

Membrane technology for water re-use application
K.C. Channabasappa 23(1977)495-514

Water reuse with granular activated carbon
K. Urano 23(1977)533-540

Application of high-temperature hyperfiltration to unit textile processes for direct recycle
C.A. Brandon and M. Samfield 24(1978)97-112

Pressure driven membrane processes in the treatment of industrial effluents
R. Matz, E. Zisner and G. Herscovici 24(1978)113-128

Ultrafiltration of bleach effluents as an example of waste-water treatment by ultrafiltration
R.F. Madsen and W.K. Nielsen 24(1978)141-154

Membrane processes used for the treatment of industrial effluents
P. Mappelli, M. Santori, A. Chiolle and G. Gianotti 24(1978)155-173

An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents
B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak 25(1978)45-59

Studies on the treatment of gold plating rinse by reverse osmosis
C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami 27(1978)261-272

Electrodialysis of effluents from treatment of metallic surfaces
S. Itoi 28(1979)193-205

They said it couldn't be done — The Orange County, California experience
P.K. Allen and G.L. Elser 30(1979)23-38

A water treatment and reuse program in Riyadh, Saudi Arabia
F.X. Floyd 30(1979)321-

Membrane filtration of NSSC-waste liquor
G. Jonsson and S. Kristensen 32(1980)327-349

Desalination and the reuse of agricultural drainage waters in Saudi Arabia
A.M. Al-Taweel, A. Bushnak and W. Bawarith 32(1980)341-352

Desalination and utilization of saline mine waters in Poland
J. Kepinski 32(1980)399-408

Hyperfiltration for recycle of 82°C textile wash water
C.A. Brandon 32(1980)409

Electrodialysis in the regeneration of paper mill spent liquor
K. Radhamohan and S. Basu 33(1980)185-200

Ultrafiltration processes for pollution control and chemical reuse in the tanning industry
E. Drioli and B. Cortese 34(1980)131-139

Ultrafiltration of effluents from slaughterhouses and brine in the meat industry
M. Goldberg 35(1980)303-315

Advanced treatment of secondary sewage effluent by membrane process
G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama 39(1981)423-434

Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents
B. Chakravorty, R. N. Mukherjee and S. Basu 46(1983)353-360

Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents
C.A. Buckley, R.L.C. Flemmer and G.R. Groves 47(1983)171-179

Reciprocating plate reactors for water reuse
M. A. Mandil, S. H. Eissa, A. O. Farag, A. El-Nikhely, F. Abdel Salam and A. M. Al-Taweel 47(1983)275-276

Application of membrane separation processes to the treatment of industrial effluents for water reuse
G. R. Groves 47(1983)277-284

Two-phase ultrafiltration as an economical unit operation for recycling of detergents
H. Paul 47(1983)293-304

Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse
G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson 47(1983)305-312

Reverse osmosis treatment and reuse of textile dyehouse effluents
K. Treffry-Goatley, C. A. Buckley and G. R. Groves 47(1983)313-320

Treatment of pulp/paper bleach effluents by reverse osmosis
M.J. Simpson and G.R. Groves 47(1983)327-333

Studies on the application of RO in treatment of rayon plant effluent
S. Basu and S. Moulik 47(1983)335-342

The desalination of coalmine drainage water by reverse osmosis
R.C. Squires, J.A.C. Cowan and F.C. Wood 47(1983)343-350

Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration
C.V. Devmurari and M.V. Chandorikar 48(1983)331-337

Hyperfiltration of surfactants containing solutions from the plating industry
E. Staude, W. Assenmacher and H. Hoffmann 49(1984)321-333

Water reclamation from sewage using traditional techniques — Some large scale examples
C. Bowler and S.H. Greenhalgh 56(1985)131-136

Comparison of two thin-film composite membranes: Low pressure FT-30 to very low pressure NF40HF
S.D.N. Freeman and T.F. Stocker 62(1987)183-191

The development of polysulfonamide membrane and its application in treating chromium plating wastewater
Liu Gouxin and Wu Jiangjing 62(1987)239-249

The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis
Xue Deming, Song Dezheng and Liu Xiaoying 62(1987)251-257

Preparation of NF ion-exchange membranes via radiation-induced grafting and their application
Xu Zhi-li 62(1987)259-264

Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes
Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin 62(1987)315-321

The influence of different types of metal complex on the transitivity of reverse osmosis membranes
Ling Ai-lian, Gao Yi-yuan and Wang Zhi-zhong 62(1987)377-394

Current status of the Calfran process
F. W. Hoffman 67(1987)185-196

Desalination and concentration of flue gas scrubber effluents using the electrodialysis reversal process
D. Elyanow and J. Mahoney 67(1987)283-298

Close-recycling of industrial liquid waste
Xu Jing-wen 67(1987)299-326

The use of reverse osmosis as a 35,600 m^3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia
T. Bryant, J. Stuart, I. Fergus and R. Lesan 67(1987)327-353

The treatment of industrial effluents with high salinity and organic contents
O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde 67(1987)395-407

The removal of sulphuric acid from natural and industrial waste waters
A.E. Simpson and C.A. Buckley 70(1988)431-442

Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions
G. Hamer, T. Egli and N. Al-Awadhi 72(1989)31-65

Water supply and desalination in Northwestern Egypt
O.K. Buros and S. Yacoub 73(1989)47-59

The proposal for the completely closed system in the Columbus Space Station
R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot 83(1991)123-136

City of San Diego potable reuse of reclaimed water: Final results
K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson 88(1992)201-214

Water Factory 21 — The logical sequence
W.R. Mills, Jr. and I.C. Watson 98(1994)265-272

Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company
A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe 102(1995)255-263

Treatment of fuel oil and crude oil contaminated waters by ultrafiltration membranes
B. Tansel, J. Regula and R. Shalewitz 102(1995)301-311

Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis
S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov 104(1996)107-111

High-pressure reverse osmosis and nanofiltration, a "zero discharge" process combination for the treatment of waste water with severe fouling/scaling potential
R. Rautenbach and T. Linn 105(1996)63-70

Wastewater disposal option in Mundaring: A practical case study
E. Murphy 106(1996)361-370

Wastewater disposal option in Mundaring: A practical case study
E. Murphy 106(1996)361-370

Biomembrane wastewater treatment by activated sludge method
M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny 107(1996)83-95

Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis
R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz 108(1996)247-253

Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water
M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini 108(1996)261-271

Influence of organic matter from waste water on the permeability of membranes
W. Reimann 109(1997)51-55

Wasterwater, radiaoactive

Water and effluent water treatment using reverse osmosis
R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani 67(1987)507-521

Wastewater Treatment

Twenty years experience in seawater reverse osmosis and how chemicals in pretreatment affect fouling of membranes
H. Winters 110(1997)93-96

Water conservation

Water re-use and conservation in the Virgin Islands
O.K. Buros 23(1977)485-494

Water conservation in arid and semi-arid regions
A.A. Akkad 72(1989)185-205

Water contamination

Practical observations on reverse osmosis plants including raw water contamination problems, different intake stations and permeator performance
F.S. Al-Kebti, E.Z. Isnasious and A.M. Al-Mahyas 93(1993)259-272

Water cost, see Cost

-

Water demand

Water resources management in arid climates
J.G. Milliken 72(1989)173-184

The increasing demand for desalination
T.A. Dabbagh and A. Al-Saqabi 73(1989)3-26

Disaster (hurricane) preparedness. Public (water) utility
G. Sheppard 98(1994)479-483

Water, Desorbate

Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes
R. Rautenbach, W. Kopp and C. Herion 72(1989)339-349

Water extraction

The Puraq seawater desalination process
L. Lazare 42(1982)11-16

A new process for the extraction of water from air
Y. Alayli, N.E. Hadji and J. Leblond 67(1987)227-229

Water factory

The water factory
Z. Zimerman 88(1992)371-379

Water flux

On a temperature correction coefficient for the water flux through reverse osmosis membranes of large scale systems
H. Ohya and Y. Taniguchi 15(1974)245-258

Effect of particle deposition on the reduction of water flux in reverse osmosis
C.-C. Hung and C. Tien
18(1976)173-187

Simultaneous automatic measurement of salt and water fluxes through a charged membrane
C. Ripoll, M. Labbe, L. Lavielle and E. Selegny 41(1982)289-298

Controlling loss of salt rejection and water flux at the Yuma Desalting Plant
A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody 96(1994)421-429

Water efficiency program for Perth
R. Stone 106(1996)377-390

Water harvesting systems

Water harvesting systems in arid lands
C.B. Ciuff 72(1989)149-159

Water intake systems

Improvements of conventional water intake system
M.M. Elarbash 82(1991)315-335

Water management

Squeezing desalted water costs by proper choice of the desalting technology and water management
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem
44(1983)189-198

Artificial recharge of groundwater and its role in water management
J.O. Kimrey 72(1989)135-147

Water resources management in arid climates
J.G. Milliken 72(1989)173-184

Water conservation in arid and semi-arid regions
A.A. Akkad 72(1989)185-205

Agricultural achievements and irrigation management in Kuwait
L. Savvides 72(1989)207-214

Water resource institutions and policies in arid regions
H. Banks 72(1989)217-224

The increasing demand for desalination
T.A. Dabbagh and A. Al-Saqabi
73(1989)3-26

Extending water supplies in water short areas
O.K. Buros and R.D.G. Pyne
98(1994)437-442

Halophyte irrigation: An overlooked strategy for management of membrane filtration concentrate
J.J. Riley, K.M. Fitzsimmons and E.P. Glen 110(1997)197-211

Water, membrane-bound

A molecular friction model for transport of uncharged solutes in neutral hyperfiltration and ultrafiltration membranes containing bound water
G. Belfort 18(1976)259-281

On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis
Y. Ogawa and S. Suzuki
42(1982)57-61

Water production

Prospects of the exploitation of advanced energy resources in water production in the Middle East
Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal 20(1977)279-287

Water production in Kuwait - Its management and economics
A.M.R. Al-Marafie and M.A. Darwish 71(1989) 45-55

Low-energy membrane nanofiltration for removal of color, organics and hardness from drinking water supplies
B.M. Watson and C.D. Hornburg
72(1989)11-22

Ultrafiltration of lake water for potable water production
M.M. Clark and K.S. Heneghan
80(1991)243-249

Need and feasibility of nuclear desalination for low cost potable water production
A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
81(1991)505-523

Limestone hardening system for Brindisi's power station: First limestone recarbonation unit installed in Italy for industrial water production
R. Zannoni, A. Bonacini, M. Musatti and I. Resini 82(1991)351-357

Increased water production using a heat recovery engine for "Direct Drive" VARI-RO™ Pumping
W.D. Childs and A.E. Dabiri
96(1994)81-88

Water purification

Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization
L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
6(1969)131-152

Puraqua — United States exhibition and international conference on water purification and desalination, Rome, 17th to 23rd February, 1969
G. Levite 7(1969)1-15

The application of thin film composite membranes in plate-and-frame systems for water purification
W. K. Nielsen and S. Kristensen
38(1981)383-396

A study on thermal driven membrane processes in water purification
N. Chlubek and E. Drioli
46(1983)179-180

Cleaning low mineral water by electrodialysis
V. I. Demkin, Y. A. Tubashov, V. I. Panteleev and Y. V. Karlin
64(1987)367-374

Current status of the Calfran process
F. W. Hoffman 67(1987)185-196

Chemical tests for proper unit operation of water purification plant by membrane and ion exchange techniques
M.R. Miah 93(1993)431-442

Iron removal from tap water by a cation exchanger
E. Korngold 94(1994)243-

An advanced purification system combining ozonation and BAC, developed by The Bureau of Waterworks, Tokyo Metropolitan Government
S. Muramoto and J. Nishino
98(1994)207-215

Vacuum desalination for water purification using waste heat
J.H. Tay, S.C. Low and S. Jeyaseelan
106(1996)131-135

Freeze desalination using hydraulic refrigerant compressors
W. Rice and D.S.C. Chau
109(1997)157-164

Parametric study of an inverted absorber double-effect solar distillation system
S. Suneja, G.N. Tiwari and S.N. Rai
109(1997)177186

Water quality

Future role of desalting for water quality improvement — Colorado River Basin, USA
G.G. Stamm and M.B. Bessler
20(1977)1-18

Advance in water quality monitoring and the use of firefly luciferine/luciferase/ATP bioassay
N. Malley and D.L. Henry
39(1981)521-528

The impact of desalinated water quality on energy costs
E. Gabbrielli 40(1982)391-394

The calculation of limiting current density of electrodialysis under the influence of water quality and temperature
Song Xu-Tong and Chen Guang
46(1983)263-274

Appropriate mineral content of desalination water: theory and drinkers' reactions. Part I
E. Gabbrielli and J.P. Gerofi
49(1984)95-103

Electrical conductivity and total dissolved solids - what is their precise relationship?
N.R.G. Walton 72(1989)275-292

Potable water quality improvement for the city of Amsterdam
H.A. van den Berkmortel and A. Graveland 98(1994)83-103

Potabilization of desalinated water at Madinat Yanbu Al-Sinaiyah
Akili D. Khawaji and Jongmihn Wie
98(1994)135-146

Groundwater as a feedwater source for membrane treatment plants: Hydrogeologic controls on water quality variation with time
T.M. Missimer 98(1994)451-457

Golf course construction plans and water quality preservation
E. Shirahama and M. Kiyozuka
98(1994)505-512

Water re-use

RO applications in wastewater reclamation for re-use
T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi 23(1977)65-76

An experience on re-use of waste water discharged from metal plating shop
Y. Murai, T. Yamadera and Y. Koike
23(1977)97-104

Desalination in the reuse of industrial waste water
H. Ogasawara, Y. Kunisada, H. Kaneda and M. Hirai
23(1977)113-122

Some experiences on waste water re-use for automobile works
Y. Koike, T. Yamadera and S. Tsukahara 23(1977)141-150

The role of desalination in water reuse
O. K. Buros 32(1980)305-308

Industrial wastewater treatment for reuse with reverse osmosis
A.M. El-Nashar 32(1980)411

Membrane processes for water supply and reuse — A question of energy consumption and cost
B. Ericsson 35(1980)401-421

Chemical treatment for reuse of wastewater effluents in Saudi Arabia
H. A. Kharaijian, R. H. Siddiqi and S. Farooq 38(1981)437-438

Water, the essence of life. An international congress on desalination and water reuse
O.K. Buros 41(1982)121-125

Desalination by reverse osmosis in China
Ying Wang et al. 46(1983)35-40

Reciprocating plate reactors for water reuse
M. A. Mandil, S. H. Eissa, A. O. Farag, A. El-Nikhely, F. Abdel Salam and A. M. Al-Taweel
47(1983)275-276

Make-up water treatment at thermal power plants and multiple waste water reuse
O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
47(1983)321-325

Desalination and reuse of power plant effluents: From pilot plant to full scale application
C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom 67(1987)255-269

The use of reverse osmosis as a 35,600 m^3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia
T. Bryant, J. Stuart, I. Fergus and R. Lesan 67(1987)327-353

Application of membrane technologies for recovery of water from pulp and paper mill effluents
B. Chakravorty and A.S. Srivastava
67(1987)363-369

Membrane technology as a tool to prevent dangers to human health by water-reuse
R.F. Madsen 67(1987)381-393

Membrane technology as a tool to prevent dangers to human health by water-reuse
R.F. Madsen 67(1987)381-393

Use of wastewater effluent in agriculture
W.J. Oswald 72(1989)67-80

Potential for water reuse in conjunction with desalination systems
R.M. Ahlgren 75(1989)315-328

Research in membrane technology for desalination and water re-use in the USSR
N.A. Platé 81(1991)281

General aspects of water re-use in the USSR
O.M. Nefedov 81(1991)282

Strategy for wastewater reuse for agriculture in Southern Italy
L. Liberti and A. Lopez
83(1991)173-182

Zero discharge/water reuse. The opportunities for membrane technologies in pollution control
P.S. Cartwright 83(1991)225-241

Membrane desalination and water re-use technologies improvement by thermodynamics of accumulation processes regulatories
M.R. Mehandjiev 83(1991)245-246

Progressive coastal community implements both desalination and reuse in a comprehensive water resource program
D.C. Whitney and J.R. Ten Eyck 87(1992)281-299

How to promote water reclamation and reuse through the California water rights system
M.A. Staples 88(1992)189-199

Future reclaimed water use in the Northeast San Fernando Valley
L.A. Seach, W.T. VanWagoner and J.M. Spacht 88(1992)225-239

Drainage water reuse or disposal, Jeddah, Saudi Arabia
O.S. Abu-Rizaiza and H.Z. Sarikaya 98(1994)173-183

A novel new water source for Madras Fertilisers Ltd.
A.G. Turner, P.S. Neelakantan and N. Gajendran 98(1994)285-293

Advanced water treatment (AWT) facility at Madras Refineries Limited, Madras - sewage water reused
J.C. Thomas 98(1994)295-301

Water recycling systems in Tokyo
T. Udagawa 98(1994)309-318

Ultrafiltration membrane technology for regeneration of building wastewater for reuse
T. Yokomizo 98(1994)319-326

Economics of brackish and desalination water reuse for irrigation
Z. Shimron 98(1994)471-478

One-day seminar on "Desalination and water reuse" (September 24,1994)
P.K. Tewari 101(1995)303

Electrodialysis reversal in water reuse applications
R.P. Allison 103(1995)11-18

Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse
G.T. Seo, Y. Suzuki and S. Ohgaki 106(1996)39-45

Magnetic particle technology: Desalination and water reuse applications
B.A. Bolto 106(1996)137-143

The potential for water recycling in Australia — Expanding our horizons
J.M. Anderson 106(1996)151-156

Wastewater 2040 — Alternative effluent disposal and reuse options for Perth and southern regions
R. van Oorschot and M. French 106(1996)157-163

Recycling of treated water in Palestine: Urgency, obstacles and experience to date
M.Y. Sbeih 106(1996)165-178

Treatment and reuse of textile wastewater by overland flow
N. Sapari 106(1996)179-182

Water reclamation and nonpotable reuse: An option for meeting urban water supply needs
D.A. Okun 106(1996)205-212

Reuse of treated wastewater — A case study in Peru
B. Schoppmann 106(1996)225-231

Reclaimed water — An untapped resource
J.(H.) van Leeuwen 106(1996)233-240

Removal of phosphorus from secondary effluent by a matrix filter
M. El-Hoz and L.W. Apperley 106(1996)247-253

Pretreatment to produce ultrapure water from reclaimed sewage
K.K. Chin 106(1996)269-272

A review of effluent re-use in Coffs Harbour: Desalination versus effluent re-use at Opal Cove Resort
E.J. Armstrong and R. Butler 106(1996)285-290

Localized treatment and reuse of wastewater: Science, technology and management
G. Ho 106(1996)291-294

Domestic greywater re-use: Australia's challenge for the future
B. Jeppesen 106(1996)311-315

An investigation into greywater reuse for urban residential properties
D. Christova-Boal, R.E. Eden and S. McFarlane 106(1996)391-397

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat 107(1996)111-119

Water, reclaimed

Using reclaimed water for shallow aquifer recharge
T.M. Fuqua, P.T. Bowen and R.S. Ortiz 88(1992)243-252

The effect of the use of reclaimed water and high pressure effluent on plant operations at Hyperion Treatment Plant
K.K. Dean 88(1992)331-340

Revision of the national reclaimed water guidelines
J.D. Gregory, R. Lugg and B. Sanders 106(1996)263-268

Water reclamation

Effect of recovery on desalination of the Black Sea water by reverse osmosis
I. Dobrevsky, V. Mavrov and B. Bonev 41(1982)209-214

Two-stage reverse osmosis seawater desalination
J. Kaschemekat, W. Hilgendorff, K. W. Böddeker, A. M. Hassan and A. L. A. Malik 46(1983)151-156

Water reclamation for power plant cooling
D. Blackson, B. W. Reyes, J. W. Kluesener and E. H. Houle 56(1985)175-190

Optimization for design of large RO seawater desalination plants
B. Ericsson, B. Hallmans and P. Vinberg 64(1987)459-489

Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs
R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes 65(1987)241-258

Recovery of water and auxiliary chemicals from effluents of textile dye houses
S.N. Gaeta and U. Fedele 83(1991)183-194

How to promote water reclamation and reuse through the California water rights system
M.A. Staples 88(1992)189-199

City of San Diego potable reuse of reclaimed water: Final results
K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson 88(1992)201-214

Recovery of acid and water by membrane dialysis
G. Wisniewska, J. Wisniewski and T. Winnicki 91(1993)307-317

Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream
J.P. Brouwer, M.M.C. Alkemade and G. Bierman 101(1995)211-218

Water recovery from etching effluents for the purpose of rinsing stainless steel
J. Wisniewski and S. Suder 101(1995)245-253

A water treatment and recovery plant for highly acidic heavy metal laden effluents
V. Cinanni, I.A. Gough and A.J. Sciuto 106(1996)145-150

Reclamation and reuse of process water from reactive dyeing of cotton
H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen 106(1996)195-203

Water reclamation and nonpotable reuse: An option for meeting urban water supply needs
D.A. Okun 106(1996)205-212

Reclaimed water — An untapped resource
J.(H.) van Leeuwen 106(1996)233-240

Water recycling

Iceberg utilization and alternative systems related to fresh water transport — Recycling and supplementary desalinization
C.D. Looyen 29(1979)173-189

Water recycling systems in Tokyo
T. Udagawa 98(1994)309-318

Recycling of sewage treatment water by ozone
T. Honda and Y. Kugawa 98(1994)327-334

A possible regulatory framework for water recycling in Australia
J.M. Anderson 106(1996)331-333

Water requirement

Cost of water and desalination of sea water: Characteristics of supply and demand *(in French)*
F. Dutheil and J. Gaussens 2(1967)234-242

Water requirements and desalting in the United States of America
M.V. Hughes, Jr. 21(1977)301-315

Planning to meet future water requirements by Orange County, California
P. Allen, W. Whittenberg and D. Argo 23(1977)471-483

New water reuse horizons
R.D. Heaton 23(1977)527-531

Desalting in Saudi Arabia - demand, production, management, associated power generation and future plans
A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri 25(1978)9-44

Investigation on sea water desalination plants in Spain
S. Muro, R. Sterner and J. Ugarte 28(1979)109-116

They said it couldn't be done — The Orange County, California experience
P.K. Allen and G.L. Elser 30(1979)23-38

Potential future roles for large-scale demineralization in South Florida
J.R. Maloy 30(1979)39-47

Some thoughts on the French water desalination program (in French)
J. J. Libert and J. C. Viche 30(1979)95-100

The future of water supply to Tripoli
M. Aswed and A. Sunni 30(1979)155-162

Water requirements of an inland nuclear power station. Engineering and economic aspects
A. Beck and M. Schaal 40(1982)19-24

Desalination plant program to solve shortage of water in the southern Italian Islands (Sicily)
G. Consiglio and M. Creton 45(1983)209-220

Non-conventional water sources for small remote communities in developing countries
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem 47(1983)285-292

Water resource

Economic evaluation of desalting sub-system as a part of the total water system
J.M. English and N. El-Ramly 3(1967)308-317

The conjunctive use of desalination and conventional surface water resources
P.A. Mawer and M.J. Burley 4(1968)141-157

Planning and operational studies in the integrated use of desalination. Case studies for Cyprus and Jersey
P.A. Mawer and T. Wyatt 13(1973)333-342

Distillation of seawater as a supplementary water resource
A.T. Hooper and H.B. Jackson 19(1976)241-256

Desalting's role in future water resource management
P.K. Allen 19(1976)483-490

Conjunctive use of desalination and wastewater reclamation in water resource planning
O.K. Buros 19(1976)587-594

Energy and water supply, Orange County, California
D.G. Argo 25(1978)135-149

Water supply and weather modifications from transferred iceberg from Antarctica to countries of the world's "thirst belt"
P.E. Victor 29(1979)7-15

Icebergs used and theory with suggestions for the future
J.M. Day 29(1979)25-40

Icebergs for reservoirs, fresh water and cooling
J.L. Hult 29(1979)41

Trends in Libyan desalination and water reuse policy
H. El-Hares and M. Aswed 30(1979)163-173

The water problem in Egypt
M.F. El-Fouly and E.E. Khalil
30(1979)205-212

The role of energy and economics in water conversion
F. Kranebitter 30(1979)501-514

A methodology for comparing water desalination to competitive fresh water transportation and treatment
S.P. Kasper and N. Lior 30(1979)541-552

The role of desalination in water reuse
O. K. Buros 32(1980)305-308

Desalination and the reuse of agricultural drainage waters in Saudi Arabia
A.M. Al-Taweel, A. Bushnak and W. Bawarith 32(1980)341-352

Desalination and utilization of saline mine waters in Poland
J. Kepinski 32(1980)399lp408

Ground water resources in Fayoum area, Egypt
B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib 39(1981)295-

Origin of subsurface water in Khartoum province, Sudan
B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib 39(1981)297

Water resources of Israel and the need for desalination
M. Ben Meir 40(1982)15-18

Water from fossil aquifers as a potential supply source for solar desalination plants on a regional scale
A. Issar and G. Oron 40(1982)25-32

The use of non-conventional water resource alternatives in water short areas
M. R. Brewster and O. K. Buros 56(1985)89-108

Water resources research needs in the Arabian Gulf area
L. Hamdan 72(1989)3-7

Water resource institutions and policies in arid regions
H. Banks 72(1989)217-224

Environmental policies at the national and regional levels: The role of EPC, GCC and ROPME
M.Y. Abdulraheem 72(1989)225-233

Economics of desalination in water resource management — A comparison of alternative water resources for arid/semi arid zones in developing countries
M.M. Tare, M.K. Gada, M.A. Siddiqui and M.H. Mehta 81(1991)57-76

Evaluation of water resources alternatives in Saudi Arabia in multi-objective framework
T. Husain, H.U. Khan and S.M. Khan 81(1991)77

Progressive coastal community implements both desalination and reuse in a comprehensive water resource program
D.C. Whitney and J.R. Ten Eyck 87(1992)281-299

Water scarcity - The challenge of the future
M.A.-K. Al-Sofi 98(1994)425-435

Water for peace master plan of the Jordan river system
M. Murakami 98(1994)459-469

Disaster (hurricane) preparedness. Public (water) utility
G. Sheppard 98(1994)479-483

The desalination choice: Planned water and power security or decisions by calamity?
H.K. Qashu 99(1994)211-232

AID's strategy for water resource management in the Middle East
H.G. Blank and G. Jackson 99(1994)233-243

Water reuse

Philosophy of water reuse in Islamic perspective
S. Farooq and Z.I. Ansari 39(1981)273-281

Regulatory framework in South Australia and reclaimed water reuse options and possibilities
N.M. Kayaalp 106(1996)317-322

Water softening

Water softening by diffusion using cation exchange membranes
B.S. Joshi and K.P. Govindan 38(1981)509-516

Water-softening by continuous counter-current ion-exchange single column technique
M. N. Prajapati, P. M. Gaur and B. D. Dasare 48(1983)281-292

Desal-5 membrane for water softening
D.L. Comstock 76(1989)61-72

The electrochemical way of removing the hardness of water
A. Bannoud 93(1993)545-555

Water treatment in a Membrane-Assisted Crystallizer (MAC)
J.T.M. Sluys, D. Verdoes and J.H. Hanemaaijer 104(1996)135-139

Water sources

Non-conventional water sources for small remote communities in developing countries
A. M. Abulnour, M. H. Sorour, F. A. Hammouda and A. M. Abdel Dayem 47(1983)285-292

Water splitting

The origin and elimination of water splitting in ion exchange membranes during water demineralisation by electrodialysis
R. Simons 28(1979)41-42

Concentration polarization and water splitting at electrodialysis membranes
V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright 91(1993)225-252

Water sterilization

New improvements in ultraviolet sterilization of desalted and reuse water
J.E. Cruver and M. Jhawar 32(1980)365-371

Water, structure

Influence of the alkali halides on the structure of water
J. Greyson 3(1967)60-65

Contributions to the desalination membrane mechanism by studies of interactions in aqueous solutions and in polymer hydration
W.A.P. Luck 62(1987)19-35

Water supply

History, experience and economics of water production in Kuwait
M.H. Ali El-Saie 1(1966)77-95

Solar distillers for use on coral islands
E.D. Howe and B.W. Tleimat 2(1967)109-115

Cost of water and desalination of sea water: Characteristics of supply and demand *(in French)*
F. Dutheil and J. Gaussens
2(1967)234-242

Desalination of sea water by direct osmosis
R. E. Kravath and J. A. Davis
16(1975)151-155

Near East desalting — The conservative approach
Y.K. Shuhaibar 17(1975)69-73

Fresh water, energy, and food from the sea and the sun
D.F. Othmer 17(1975)193-214

Desalination in Australia: Operational experience and future prospects
L.G. Kemeny 18(1976)321-344

Geothermal energy recovery process
L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers
19(1976)325-336

Military requirements for water supply
R.P. Schmitt 19(1976)491-498

Conjunctive use of desalination — A systems view for planning
N. El-Ramly 19(1976)534

Potable water supply of Riyadh, the Saudi Arabia Kingdom's capital city, by reverse osmosis desalting plants
J.J. Allard, J.M. Rovel and P. Treille
20(1977)227-237

Water supply and weather modifications through the use of transported icebergs from the Antarctic
M. Al-Faisal 20(1977)415-423

Energy and water supply, Orange County, California
D.G. Argo 25(1978)135-149

Water supply and weather modifications from transferred iceberg from Antarctica to countries of the world's "thirst belt"
P.E. Victor 29(1979)7-15

They said it couldn't be done — The Orange County, California experience
P.K. Allen and G.L. Elser
30(1979)23-38

Potential future roles for large-scale demineralization in South Florida
J.R. Maloy 30(1979)39-47

The future of water supply to Tripoli
M. Aswed and A. Sunni
30(1979)155-162

The water problem in Egypt
M.F. El-Fouly and E.E. Khalil
30(1979)205-212

Water for life: Israel's R & D for water renovation and sweet water production
D. Ashboren and M. Waldman
30(1979)213-221

Desalination and its application to underdeveloped areas
T.G. Temperley 30(1979)319

Greenhouses with solar desalination *(in French)*
P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger
31(1979)429-434

Techniques for achieving high recovery from saturated water sources using reverse osmosis membranes
O.E. Kirchner 32(1980)223

Membrane processes for water supply and reuse — A question of energy consumption and cost
B. Ericsson 35(1980)401-421

Large scale dew collection as a source of fresh water supply
A. K. Rajvanshi 36(1981)299-306

Design of a commercial solar-powered greenhouse
T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews 39(1981)53-62

Water from fossil aquifers as a potential supply source for solar desalination plants on a regional scale
A. Issar and G. Oron 40(1982)25-32

Analysis of the water desalination and power generation expansion plans for the Emirate of Abu Dhabi
A.M. El-Nashar 44(1983)107

Corrosion control of feeders carrying potable water from desalination of sea water. Case of the Yanbu Medina water supply system (Saudi Arabia)
P. Leroy 44(1983)317-324

Desalination plant program to solve shortage of water in the southern Italian Islands (Sicily)
G. Consiglio and M. Creton
45(1983)209-220

Recent solar distillation developments
A. Delyannis and E. Delyannis
45(1983)361-369

The integration of a reverse osmosis installation in the fully automated operation of a rural water supply company
F. Bergmann and B. Schuette
49(1984)203-214

Water resources development in Riyadh, Saudi Arabia
I.S. Al-Mutaz 64(1987)193-202

Ten years' development on distillation in China
Wang Shi-chang 64(1987)211-215

Potable water technology transfer and assessment in Egypt
E.E. Khalil, A.H. Mariy and M. Marwan 64(1987)217-227

Thin film desalination plants and their role in water supply
V. Slesarenko 65(1987)63-73

The city of Cape Coral demonstrates reverse osmosis is cost effective and operationally efficient
M. R. Ashton 65(1987)277-320

Operational experience of reverse osmosis plants for drinking water in Indian villages
S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani 65(1987)361-372

Desalination in the year 2000 — Technoeconomic aspects
O.P. Kharbanda 67(1987)579-588

RO desalination in Northwest China
Wang Ying 69(1988)57 -59

A preliminary plan for membrane desalination in China
Gao Conjie 69(1988)61-62

A mobile reverse osmosis demonstration plant
V.J. Shah, R.M. Kava, A.V. Rao and M.M. Taqui Khan 69(1988)161-169

Solar desalination as a means to provide Indian villages with drinking water
S. D. Gomkale 69(1988)171-176

Operational experience with solar stills in An Indian village and their contribution to the drinking water supply
S. D. Gomkale 69(1988)177-182

Management and feasibility of reverse osmosis schemes for rural water supply in India
S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani 73(1989)37-46

Water supply and desalination in Northwestern Egypt
O.K. Buros and S. Yacoub 73(1989)47-59

Water supply challenge in the Gulf Region
A.A. Bushnak 78(1990)133-145

Membrane filtration: A realistic option in the field of water supply?
J.C. van Dijk, B.R. Munneke, B. Kramer and J.W. Wouters 81(1991)229-247

Contamination of food-process water supplies
G. Hayes 82(1991)375-384

Seawater desalination to augment the water supply on Penghu Island, Taiwan
Jack Chen, Harry S. Lu and Leon Awerbuch 97(1994)319-325

Water treatment for public supply in the 1990's — A role for membrane technology?
A.J. Rachwal, J. Khow, J.S. Colbourne and J. O'Donnell 97(1994)427-436

The Army water supply program: An overview
T.H. Bagwell, Jr., B. Shalewitz and A. Coleman 99(1994)409-421

The case for seawater desalination to solve the water shortage in the Gaza Strip
T. Loewy 99(1994)447-458

Water systems

Reliability analysis of desalination equipment
A. Unione, E. Burns and A. Husseiny 32(1980)225-237

The Riyadh water transmission system (RWTS)
I. M. R. Jamjoom, P. Laesser and A. H. Feizlmayr 39(1981)241-254

Water transport

Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water
R.P. Rastogi, K. Singh and B.M. Misra 3(1967)32-36

Water transport through cation-exchange membranes
N. Lakshminarayanaiah 3(1967)97-105

The Riyadh water transmission system (RWTS)
I. M. R. Jamjoom, P. Laesser and A. H. Feizlmayr 39(1981)241-254

Water transport studies on interpolymer ion-exchange membranes
V. K. Indusekhar and N. Krishnaswamy 52(1985)309-316

Water transport during the concentration of waste zinc sulfate solutions by electrodialysis
R. Audinos and S. Paci 67(1987)523-545

Water treatment

Military requirements for water supply
R.P. Schmitt 19(1976)491-498

Marketing new technology for solving water treatment problems: One company's experience
H.E. Green 23(1977)321-330

Riyadh's reverse osmosis water treatment plants — The largest demineralization complex in the world
H.E.A. Ghulaigah and B. Ericsson 30(1979)301-314

Membrane processes for water, pulp and paper, food. State of the art
R. Glimenius 35(1980)259-272

Evaluation and development of technical thermoplastic systems for desalination and other water treatment applications
G. Mössner 44(1983)325-327

Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations
O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert 71(1989)337-345

Water harvesting systems in arid lands
C.B. Ciuff 72(1989)149-159

Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1
G. Ali, J.H. Dalton, P.D. Judges and C. Tao 76(1989)27-37

RO for improved products in the food and chemical industries and water treatment
D. Pepper 77(1990)55-71

Abstacts from Technology of Water treatment
Yitang Chen, Qunshu Wang , and Shouxiang Jiang (Editors) 79(1990)95-114

Contamination of food-process water supplies
G. Hayes 82(1991)375-384

EDR - Water treatment - Desalination on the prairies
D. Heshka 88(1992)109-121

Membrane applications in raw water treatment with and without reverse osmosis desalination
B. Ericsson and B. Hallmans 98(1994)3-16

Mechanical vapour compression to treat oil field produced water
A. Koren and N. Nadav 98(1994)41-48

Water treatment by pitch-based activated carbon fiber
N. Shindo, Y. Otani, G. Inoue and K. Kawazoe 98(1994)155-160

Electrochemical generation of ozone for water treatment using a cell operating under natural convection
W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed 99(1994)149-157

The US Bureau of Reclamation's research programs in water treatment and desalting technologies
S. Hightower, K. Price and L. Henthorne 99(1994)201-210

Blending and post-treatment protocols for SDWA compliance — Hollywood (FL) water plant
B.M. Watson, C.D. Hornburg and R. Collins 102(1995)1-10

Treatment of natural water by membranes
A.G. Pervov, Y.V. Reztsov, S.B. Milovanov and V.S. Koptev 105(1996)33-39

New ecological problems of desalting and water re-use
V.D. Grebenyuk, A.A. Mazo and V.M. Linkov 105(1996)175-183

Performance of membrane filtration system used for water treatment
T. Oe, H. Koide, H. Hirokawa and K. Okukawa 106(1996)107-113

Alicante University, closed water cycle, reverse osmosis and water treatment plants
D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter 109(1997)315-321

Water treatment plants

Use of aquifer storage and recovery technology to improve membrane water treatment plant efficiency, Collier County, Florida
T.M. Missimer, C.W. Walker and F. Bloetscher 87(1992)269-280

Automation of water treatment plants and its application in power and desalination plants
E.A. Al-Sum, A. Sattar and M. Abdul Aziz 92(1993)309-321

KACST mobile drinking water treatment plant for research
A.I. Alabdula'aly and A.A. Chammem 98(1994)71-82

Water vapor pressure

Vapor pressures of binary aqueous solutions of NaCI, KCI, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)139-148

Vapor pressures of ternary aqueous solutions of NaCI, KCI, Na_2SO_4 and $MgSO_4$ at concentrations and temperatures of interest in desalination processes
B.M. Fabuss and A. Korosi 1(1966)149-155

Permeability of membranes to water vapor
A. Van Haute and Y. Henderyckx 3(1967)169-173

Water-ethanol mixtures

Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolef in) membrane by pervaporation method
I. Terada, M. Nakamura and M. Nakao 70(1988)455-463

Water-splitting

Elimination of acid-base generation ('water-splitting') in electrodialysis
I. Rubinstein, A. Warshawsky, L. Schechtman and O. Kedem 51(1984)55-60

Water-vapor permeability

Water-vapor permeability of polyvinyl alcohol films
Yu Xianda, Wang Anlai and Cao Suqin 62(1987)293 -297

Wavepowered desalination

Wave powered desalination
A.J. Crerar, R.E. Low and C.L. Pritchard 67(1987)127-137

Wavepowered desalination: Experimental and mathematical modelling
A.J. Crerar and C.L. Pritchard 81(1991)391-398

Weak base ion exchange

Regeneration of weak base ion exchange resins
W. Höll and R. Kirch 26(1978)153-162

Weak electrolyte ion exchange

Further studies on the weak electrolyte ion exchange resin desalination process (DESAL Process)
R. Kunin 4(1968)38-44

A new ion exchange approach to the treatment of brackish waters
B. Vassiliou and P. Sturla 5(1968)40-48

Weather modifications

Water supply and weather modifications through the use of transported icebergs from the Antarctic
M. Al-Faisal 20(1977)415-423

Water supply and weather modifications from transferred iceberg from Antarctica to countries of the world's "thirst belt"
P.E. Victor 29(1979)7-15

Weir type orifice

Development of flow model for weir type orifice
M. Kishi, K. Matsumoto, Y. Takeuchi and K. Hattori 55(1985)481-492

Welded constructions

Corrosion of welds in seawater
T. Hodgkiess, N. Eid and W.T. Hanbury 27(1978)129-136

Well water

Desalting 36,000 ppm well water with electrodialysis: a 5-year report
H. C. Valcour, Jr. and K. D. McElhinney 38(1981)529-536

Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs
R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes 65(1987)241-258

Well-injection techniques

Artificial recharge of groundwater and its role in water management
J.O. Kimrey 72(1989)135-147

Wells

Disposal of concentrate from brackish water desalting plants by use of deep injection wells
A. Muniz and S.T. Skehan 78(1990)41-47

Wet-dry reversible membranes

Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends
K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders 61(1987)211-235

Wetland

Conjunctive wetland treatment/aquifer storage and recovery at Regent Gardens residential development, Northfield, South Australia
A.J. Emmett, S. Clarke and S. Howles 106(1996)407-410

Wetland strategy

An integrated plan for town-enterprise wastewater reuse and wetland strategy: A case study
Qixing Zhou, Limei Dai and R.W. Bell 106(1996)439-442

Wetting rate

Wettability, rewettability and breakdown of thin films of aqueous salt solutions
N. Brauner, D. Moalem-Maron and Z. Harel 52(1985)295-307

Wheat starch

Treatment of wheat starch waste water by a membrane combined two phase methane fermentation system
C. Yanagi, M. Sato and Y. Takahara 98(1994)161-170

Wheel turbines

The use of Pelton wheel turbines for energy recovery in reverse osmosis systems
W. Wilson, A. Gruendisch and I. Calder-Potts 65(1987)231-240

Whey proteins

Production of whey protein concentrates with high solids content
J. Rubin 35(1980)193-199

Boundary layer phenomena during ultrafiltration of dextran and whey protein solutions
G. Jonsson 51(1984)61-77

Microfiltration in whey processing
J.H. Hanemaaijer 53(1985)143-155

Microfiltration of protein solutions: Effect of fouling on rejection
P. Heinemann, J.A. Howell and R.A. Bryan 68(1988)243-250

Whole microbial cells

Biocatalysis by membrane-attached enzymes and whole microbial cells
K. Venkatsubramanian 35(1980)353-363

Wind energy

Desalination using new energy sources *(in French)*
A. Maurel 31(1979)489-499

Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects
G. Petersen, S. Fries, J. Mohn and A. Müller 31(1979)501-509

An introduction to new energy sources for desalination
O.K. Buros 39(1981)37-41

Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience
G. Petersen, S. Fries, J. Mohn and A. Müller 39(1981)125-135

Development of SOLAR DESAL, a code for modeling, simulation and design of solar desalination systems
T. E. Dix 39(1981)169-170

Desalination and renewable energies: a few recent developments
J. J. Libert and A. Maurel 39(1981)363-372

Wind power — A reliable source for desalination
R. McBride, R. Morris and W. Hanbury 67(1987)559-564

Development of a reliable low-cost reverse osmosis desalination unit for remote communities
R. Robinson, G. Ho and K. Mathew 86(1992)9-26

Wind energy exploitation for reverse osmosis desalination plants
C.T. Kiranoudis, N.G. Voros and Z.B. Maroulis 109(1997)195-209

Wiped film rotating disk

Water recovery from and volume reduction of gray water using an energy efficient evaporator
B.W. Tleimat and M.C. Tleimat 107(1996)111-119

Wiped-film evaporator

Heat transfer in a rotating disk evaporator
C. S. Wang, R. Greif and A. D. K. Laird 33(1980)259-267

A novel 2500 GPD 5-effects wiped-film rotating disk vapor-compression module: Preliminary results
B. Tleimat and M. Tleimat 74(1989)289-303

Wire mesh

Comparison between the use of a baffle and a wire mesh in flashing units
M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky 19(1976)83-92

Wood pulping, caustic extraction stage

The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping
A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley 67(1987)455-465

Wood pulping mill effluent

Recovery of lignosulphonate from a calcium bisulphite pulp mill by ultrafiltration
F.G. Neytzell-de Wilde 67(1987)495-505

World Bank policies

World Bank policies regarding assistance to desalination activities *(in Spanish)*
G. Yepes 20(1977)439-448

WOX process

The pretreatment of seawater RO feed using the UVOX (W/oxidant) process
D. Hebden and G. R. Botha 32(1980)115-126

X-ray techniques

The use of speciation and X-ray techniques for determining pretreatment steps for desalination
C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen 66(1987)327-337

Xylose solution concentration

Concentrating xylose solution by reverse osmosis with cellulose acetate dry membrane
Liu Yurong, Cai Bangxiao, Chen Yiming and Lang Kangmin 62(1987)193-201

Ymer production

Production and properties of yoghurt and ymer made from ultrafiltrated milk
G. Mogensen 35(1980)213-222

Yogurt production

Production and properties of yoghurt and ymer made from ultrafiltrated milk
G. Mogensen 35(1980)213-222

Zeolite

Chromium removal from water by ion exchange using zeolite
M. Pansini, C. Colella and M. de' Gennaro 83(1991)145-157

Zero discharge

Optimal cooling towers management for zero discharge
O. E. Natale 44(1983)167-176

Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis
G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
47(1983)267-274

Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia
P. Wong, P. Docker, E. Gabbrielli and P. Wade 98(1994)225-238

Industrial water production by utilization of a reverse osmosis and an evaporation plant
R. Borsani, M. Fazio and B. Ferrando
108(1996)231-245

Zeta potential

Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer
M. Elimelech, W.H. Chen and J.J. Waypa 95(1994)269-286

Electrokinetic characterization of polyethersulfone UF membranes
L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani 109(1997)253-261

Zinc

Electrochemical and spectroscopic studies on dezincification of α-brass. Part II. Effect of polarization on the dezincification process
T.M.H. Saber and A.A. El-Warraki
93(1993)473-486

Zinc extraction

Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes
Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin 62(1987)315-321

Zinc liquors

Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors
K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
53(1985)197-215

Zinc sulfate solutions

Water transport during the concentration of waste zinc sulfate solutions by electrodialysis
R. Audinos and S. Paci
67(1987)523-545

Zirconium chelating capability

Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VI. Effect of copolymer composition on the stability of poly(acrylic acid-covinyl acetate) and poly(acrylic acid-covinyl alcohol) membranes
A.J. Van Reenen and R.D. Sanderson
72(1989)329-338

Zirconium phosphate

Electrodriven solute transport studies on an impregnated zirconium phosphate membrane
K. Singh and A. Singh
101(1995)115-121

Zone-freezing dynamics

The dynamic of sea water desalting through zone-freezing
D.M. Lupu 31(1979)415

DESALINATION

THE INTERNATIONAL JOURNAL ON THE SCIENCE AND TECHNOLOGY OF DESALTING AND WATER PURIFICATION

Cumulative Author Index

January 1966 – July 1997

Volumes 1–110

Miriam Balaban, Editor

Elsevier Science, Publisher

Abart E.M.

E.M. Abart
Decision making strategy for handling biocides. Experience at Yuma Desalting Plant (Yuma, AZ, USA) 97(1994)437

Abaticchio P.

P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
Characterization of ultrafiltration polymeric membranes 78(1990)235

Abbosh F.G.

F.G. Abbosh, I. Kamal, S. Chalchal and H. Gerke
Design and performance of the world's largest operating dual-purpose sea water desalting plant 45(1983)223

F.G. Abbosh and I. Kamal
Computer-based performance evaluation of dual-purpose steam turbine/multistage flash desalination plants 66(1987)127

Abd El Wahab A. H.

M.G.A. Khedr, A.H. Abd El-Wahab, J. Kaschemekat and J. Mohn
A field trial of reverse osmosis in the El Khanka Desert, Egypt 51(1984)173

Abdalla S.

S. Abdalla and S.H. Yacoub
Feasibility prediction of potable water production using waste heat from refuse incinerator hooked up at Stirling cycling machine 64(1987)491

Abdalla W.E.

O.A. Hamed, E.I. Eisa and W.E. Abdalla
Overview of solar desalination 93(1993)563

Abdel-Aal H.K.

H.K. Abdel-Aal and M.A. Al-Naafa
Enhanced evaporation of saline water in multi-purpose solar desalination units 93(1993)557

Abdel-Dayem A. M.

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Squeezing desalted water costs by proper choice of the desalting technology and water management 44(1983)189

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Non-conventional water sources for small remote communities in developing countries 47(1983)285

Abdel-Ghafour E.E.

M.A. Mandil and E.E. Abdel-Ghafour
Optimization of multi-stage-flash evaporation plants 5 suppl.(1969)507

Abdel-Jawad M.

F. Al-Awadi and M. Abdel-Jawad
Evaluation of the three post-treatment systems at Doha seawater reverse osmosis plant — Kuwait 63(1987)109

S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah
Cost and economic analysis of Doha reverse osmosis plant (Kuwait) 64(1987)65

G. Aly, A. Al-Haddad and M. Abdel-Jawad
Parametric study on falling-film seawater desalination 65(1987)43

H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly
Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination 66(1987)423

M.A. Darwish, M. Abdel-Jawad and G.S. Aly
Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants 72(1989)367

M.A. Darwish and M. Abdel-Jawad
Technical aspects of reducing desalting water costs in distillation methods 72(1989)381

A.Y. Al-Borno and M. Abdel-Jawad
Conventional pretreatment of surface seawater for reverse osmosis application, state of the art 74(1989)3

J. Carew, M. Abdel-Jawad, A. Julka and Y. Al-Wazzan
Performance of materials used in seawater reverse osmosis plants 74(1989)85

B.A.Q. Darwish, M. Abdel-Jawad and G.S. Aly
On the standardization of performance data for reverse osmosis desalination plants 74(1989)125

M.A. Darwish, M. Abdel-Jawad and L.J. Hauge
A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems 75(1989)25

B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad
Predictability of membrane performance of reverse osmosis systems for seawater desalination 75(1989)55

M. Abdel-Jawad and M.A. Darwish
Simplified analysis of transport in reverse osmosis (RO) hollow fiber (HF) membranes 75(1989)97

A.H. Ghabris, M. Abdel-Jawad and G.S. Aly
Municipal wastewater renovation by reverse osmosis. State of the art 75(1989)213

M.A. Darwish, M. Abdel-Jawad and G.S. Aly
Technical and economical comparison between large capacity MSF and RO desalting plants 76(1989)281

M.A. Darwish and M. Abdel-Jawad
Technical aspects of reducing desalting water cost by distillation methods 76(1989)305

M.A. Darwish, M. Abdel Jawad and G.S. Aly
Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants 78(1990)313

J.A. Carew, M. Abdel-Jawad and Y. Al-Wazzan
Evaluation of corrosion-resistant alloys for desalination applications 95(1994)53

S. Ebrahim and M. Abdel-Jawad
Economics of seawater desalination by reverse osmosis 99(1994)39

M. Abdel-Jawad and S. Ebrahim
Beachwell seawater intake as feed for an RO desalting system 99(1994)57

M.A. Darwish, M.M. El-Rafaee and M. Abdel-Jawad
Developments in the multi-stage desalting system 100(1995)35

S.H. Ebrahim, M.M. Abdel-Jawad and M. Safar
Conventional pretreatment system for the Doha Reverse Osmosis Plant: Technical and economic assessment 102(1995)179

S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney
Microfiltration system as a pretreatment for RO units: Technical and economic assessment 109(1997)165

M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari
Pretreatment of the municipal wastewater feed for reverse osmosis plants 109(1997)211

S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji
Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique 110(1997)85

0011-9164/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved.
PII S0011-9164(97)00108-2

Abdel-Karim A. K. T.

M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim
Sea water intake and its effect on heat rejection design and material for flash distillation plant 38(1981)257

Abdel-Khalik S. I.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

Abdel-Salam F.

M.A. Mandil, S.H. Eissa, A.O. Farag, A. El-Nikhely, F. Abdel Salam and A.M. Al-Taweel
Reciprocating plate reactors for water reuse 47(1983)275

Abdelhalim M. M.

S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah
Cost and economic analysis of Doha reverse osmosis plant (Kuwait) 64(1987)65

Abdelmessih A.H.

A.H. Abdelmessih and I.C. Hsu
The effect of hydraulic jump on the performance of a single-stage flash evaporator 19(1976)65

Abdo M.S.E.

G.A. Al-Enezi, H. Shaban and M.S.E. Abdo
Total organic carbon reduction of phenol-containing wastewaters by oxidation techniques 95(1994)1

Abdul-Aleem B.J.

Z. Ahmad and B.J. Abdul Aleem
The corrosion performance of 90-10 cupronickel in Arabian Gulf water containing ammonia 95(1994)307

Abdul-Aziz M.

E.A. Al-Sum, A. Sattar and M. Abdul Aziz
Automation of water treatment plants and its application in power and desalination plants 92(1993)309

Abdul-Fattah A. F.

Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal
Prospects of the exploitation of advanced energy resources in water production in the Middle East 20(1977)279

A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri
Desalting in Saudi Arabia - demand, production, management, associated power generation and future plans 25(1978)9

A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri
Nuclear desalination for Saudi Arabia: An appraisal 25(1978)163

A.F. Abdul-Fattah and A.A. Husseiny
Engineering management of nuclear desalination plants — A case study, Saudi Arabia 27(1978)283

A.F. Abdul-Fattah and A.A. Husseiny
Multiattribute decision analysis of desalination plant engineering management options with applications to Saudi Arabia 28(1979)253

A.A. Bushnak, A.F. Abdul-Fattah, A.A. Husseiny and A.M. El-Nashar
Selection of desalination technology, a decision analysis approach and a case study 30(1979)483

A.F. Abdul-Fattah
Engineering management of desalination plants in Saudi Arabia using fuzzy decision analysis 37(1981)343

A-R.F. Abdul-Fattah
Handling of fuzzy decisions in the engineering management of large desalination plants 39(1981)489

A.F. Abdul-Fattah
Supply of desalted water to remote arid zones 60(1986)151

A.F. Abdul-Fattah
Selection of solar desalination system for supply of water in remote arid zones 60(1986)165

A.F. Abdul-Fattah
Use of low grade in driving small freezing units for desalination 61(1987)169

Abdul-Majid S.

S. Abdul-Majid and U. Dawood
Measurement of localized metal removal in pipes by gamma-ray back scattering method 75(1989)185

S. Abdul-Majid and U. Dawood
Neutron-capture gamma-ray technique for scale identification inside pipes 75(1989)199

S. Abdul-Majid
Determination of scale thickness and general and localized metal removal in desalination plants by the gamma-ray interaction method 91(1993)35

S. Abdul-Majid
Applications of neutron back-diffusion technique for wall thickness and scale measurements at desalination or chemical plants 94(1993)101

Abdula'aly A.I.

A.I. Abdula'aly and A.A. Chammem
Groundwater treatment in the Central Region of Saudi Arabia 96(1994)203

Abdulbary A.F.

A.F. Abdulbary, L.L. Lai, D.M.K. Al-Gobaisi and A. Husain
Experience of using the neural network approach for identification of MSF desalination plants 92(1993)323

Abdullah R.

B.A. Al-Hoti and R. Abdullah
Reuse of collected stormwater runoff for irrigation in Kuwait 75(1989)329

Abdulraheem M. Y.

M.Y. Abdulraheem
Health considerations in using treated industrial and municipal effluents for irrigation 72(1989)81

M.Y. Abdulraheem
Environmental policies at the national and regional levels: The role of EPC, GCC and ROPME 72(1989)225

Abdus Samad M.

M. Abdus Samad
Operational problems in the solar desalination plant and its remedies 93(1993)615

Aboudher A.

N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni
Operating experience of MSF desalination plant at the Abu Kammash chemical complex 73(1989)417

Aboudiwan J.

A. Muirhead, S. Beardsley and J. Aboudiwan
Performance of the 12,000 m3/d seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia, January 1979 through January 1981 42(1982)115

Abramov A. I.

O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
Make-up water treatment at thermal power plants and multiple waste water reuse 47(1983)321

Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
Experimental investigation of the dryout at low mass velocities and pressures 108(1996)375

Abrams J.

A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch
Jeddah stack emissions problems and solutions 73(1989)459

Abu-Eid Z. M.

Z.M. Abu-Eid and A.G. Fakhoury
Some special design features of Kuwait MSF plants 23(1977)263

Abu-Goukh M. E.

M.E. Abu Goukh and D.W. Thompson
An absorption-desorption stack for cyclic electrodialysis in open system 46(1983)211

Abu-Hijleh B.A.K.

B.A.K. Abu-Hijleh
Enhanced solar still performance using water film cooling of the glass cover 107(1996)235

Abu-Ihweig T.

R. Zannoni, F. Fantini, M. Haruni, T. Abu Ihweig and G. Boari
Reverse osmosis desulphation pretreatment: new prototype application 54(1985)333

G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar 66(1987)443

Abu-Rizaiza O.S.

O.S. Abu-Rizaiza and H.Z. Sarikaya
Drainage water reuse or disposal, Jeddah, Saudi Arabia 98(1994)173

Abu-Safiah A.

A. Abu-Safiah
Material selection for the high pressure section of seawater RO plants 84(1991)279

A. Abu-Safiah
Failure of sections and components in seawater RO plants 84(1991)309

Abualhamayel H.I.

P. Gandhidasan and H.I. Abualhamayel
A simple analysis of solar desalination of seawater 99(1994)137

Abueida K. S.

S. Rebagliati, E. Ghiazza and K.S. Abueida
One year operational experience on the process control system at UANE MSF Desalination Plant 75(1989)149

Abulnour A. G.

A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik
Parametric evaluation of flux decline during ultrafiltration of protein solutions 68(1988)35

M.H. Sorour, A.G. Abulnour and H.A. Talaat
Desalination of agricultural drainage water 86(1992)63

Abulnour A. M.

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Squeezing desalted water costs by proper choice of the desalting technology and water management 44(1983)189

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Non-conventional water sources for small remote communities in developing countries 47(1983)285

Accomazzo M.A.

F.B. Leitz, M.A. Accomazzo and W.A. McRae
High temperature electrodialysis 14(1974)33

Actis G.

A. Franceschini, G. Fidilio and G. Actis
On the relationship between permselective membranes porosity and evaporation rate of the casting solutions 26(1978)37

Adams L. R.

R.J. Nunge and L.R. Adams
Reverse osmosis in laminar flow through curved tubes 13(1973)17

Adams W. R.

W.R. Adams
The effects of chlorine dioxide on reverse osmosis membranes 78(1990)439

Adamson W. L.

R.H. Rankin and W.L. Adamson
Scale formation as related to evaporator surface conditions 13(1973)63-87, Err. 13(1973)63

Adar J.

J. Adar
Choice and optimization of eventual heat sources for large desalting plants in Israel 3(1967)37

J. Adar, D. Caplin, G. Frank and O. Tavory
Preliminary study of a desalination-power-industrial complex in Israel 5 suppl.(1969)757

J. Adar
Coupling of standard condensing nuclear power stations to horizontal aluminium tubes multieffect distillation plants 20(1977)143

J. Adar
Present and future energy costs in Israel 40(1982)35

Addenbrook D. G.

D.G. Addenbrook
Letter to the Editor 41(1982)337

Adduci J.

J. Adduci, L.L. Chapoy, G. Jonsson, J. Kops and B.M. Shinde
Semi-stiff chain aromatic polyamic-acids: new candidates for reverse osmosis membranes 46(1983)349

Adhikari R.S.

R.S. Adhikari and A. Kumar
Transient simulation studies on a multi-stage stacked tray solar still 91(1993)1

Adhikary S. K.

W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan
Desalination of brackish water by electrodialysis 42(1982)97

P.K. Narayanan, W.P. Harkare, S.K. Adhikary, N.J. Dave, D.K. Chauhan and K.P. Govindan
Performance of an electrodialysis desalination plant in rural area 54(1985)145

M.R. Adiga, S.K. Adhikary, P.K. Narayanan, W.P. Harkare, S.D. Gomkale and K.P. Govindan
Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert 67(1987)59

S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan
Defluoridation during desalination of brackish water by electrodialysis 71(1989)301

S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
Desalination of brackish water of higher salinity by electrodialysis 84(1991)189

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

Adiga M. R.

M.R. Adiga, S.K. Adhikary, P.K. Narayanan, W.P. Harkare, S.D. Gomkale and K.P. Govindan
Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert 67(1987)59

Adin A.

A. Adin and C. Klein-Banay
Pretreatment of seawater by flocculation and settling for particulates removal 58(1986)227

Aeijelts Averink C.W.

W.G.J. van der Meer, C.W. Aeijelts Averink and J.C. van Dijk
Mathematical model of nanofiltration systems 105(1996)25

Afgan N.

M. Stefanovic and N. Afgan
Liquid superheat for vapour formation with and without presence of solid surface 10(1972)17

Afonso M. D.

M.D. Afonso and M.N. De Pinho
Ultrafiltration of bleach effluents in cellulose production 79(1990)115

M.D. Afonso and M.N. De Pinho
Membrane separation processes in the pulp and paper industry 85(1991)53

Agashichev S. P.

Y.I. Dytnersky, S.P. Agashichev and Y.K. Romanenko
The calculation of microfiltration of suspensions in cartridge filters 81(1991)265

S.P. Agashichev and A.V. Sivakov
Modeling and calculation of temperature-concentration polarisation in the membrane distillation process (MD) 93(1993)245

S.P. Agashichev and D.V. Falalejev
Modeling temperature polarization phenomena for longitudinal shell-side flow in membrane distillation process 108(1996)99

S.P. Agashichev and E.A. Dmitriev
Stochastic modeling particle-size distribution in permeate and in concentrate on the stage of membrane pretreatment before reverse osmosis 110(1997)75

Agostini J.P.

P. Balligand, J.P. Agostini, J. Huyghe, F. Lauro and P. Vignet
Etude d'usines de dessalement associées à un réacteur nucléaire du type uranium naturel-gaz-graphite et fonctionnant suivant différents procédés de distillation 5 suppl.(1969)425

Agrawal J.P.

J.P. Agrawal, C.R. Antonson and N.W. Rosenblatt
Permeability measurements of flat seawater membranes 11(1972)71

Aguirre P.

N.J. Scenna and P. Aguirre
Optimal thermodynamic synthesis of dual-purpose desalination plants. Extraction vs. back pressure turbines 81(1991)419

Ahlert R. C.

D.E. Potts, R.C. Ahlert and S.S. Wang
A critical review of fouling of reverse osmosis membranes 36(1981)235

C.S. Slater, R.C. Ahlert and C.G. Uchrin
Applications of reverse osmosis to complex industrial wastewater treatment 48(1983)171

Ahlgren R. M.

C.P. Tallman, Sr.
Method for extending heat exchanger and condenser life 73(1989)231

R.M. Ahlgren
Potential for water reuse in conjunction with desalination systems 75(1989)315

Ahmad Z.

Z. Ahmad and B.J. Abdul Aleem
The corrosion performance of 90-10 cupronickel in Arabian Gulf water containing ammonia 95(1994)307

Ahmed A. M. A.

I.I. Kutbi and A.M.A. Ahmed
Comparative cost analysis of nuclear versus oil-fired dual-purpose desalination plants 58(1986)43

A.M. Ahmed and I. Moch, Jr.
Seawater reverse osmosis. A study in use 82(1991)3

Ahmed K.A.

O.A. Hamed and K.A. Ahmed
An assessment of an ejectocompression desalination process 96(1994)103

Ahmed S. R.

S.R. Ahmed, M.S. Alansari and T. Kannari
Biological fouling and control at Ras Abu Jarjur RO Plant - A new approach 74(1989)69

Ahmed S. Y.

S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar
Scope and development of solar stills for water desalination in India 5(1968)64

Ahmed Z.

Z. Ahmed and S. Rashidi
Application potential of a modified aluminium alloy in Arabian Gulf desalination plants 44(1983)265

Aidrous A.

D. Herrmann, A. El-Nashar and A. Aidrous
Short-term operational planning in WED. Part 1: Structure of the cogeneration system 92(1993)171

D. Herrmann, A. El-Nashar and A. Aidrous
Short-term operational planning in WED. Part 2: Load dispatch and unit commitment 92(1993)185

Akami H.

C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami
Studies on the treatment of gold plating rinse by reverse osmosis 27(1978)261

Akashah S.

S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah
Cost and economic analysis of Doha reverse osmosis plant (Kuwait) 64(1987)65

Akhtar N.

N. Akhtar, L. McGrath and P.D. Roberts
Dynamic modelling and partial simulation of a pilot scale column crystallizer 28(1979)1

Akita K.

M. Tsuyumoto, K. Akita and A. Teramoto
Pervaporative transport of aqueous ethanol: Dependence of permeation rates on ethanol concentration and permeate side pressures 103(1995)211

Akkad A. A.

A.A. Akkad
Water conservation in arid and semi-arid regions 72(1989)185

Al-Abbasi M. A.

M.A. Al-Abbasi, A.A. Al-Karaghouli and A.N. Minasian
Photochemically assisted solar desalination of saline water 86(1992)317

Al-Abdallah A.

F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin
Field trials of hybrid acid-additive treatment for control of scale in MSF plants 54(1985)307

Al-Abdulhadi M.

G.P. Maheshwari, M. Al-Ramadhan and M. Al-Abdulhadi
Energy requirement of water production in dual-purpose plants 101(1995)133

Al-Adsani A. M. S.

A.M. S. Al-Adsani, A.B. Hasan and A A. Malik
Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre 22(1977)271

Al-Ahmad M. S.

M.S. Al-Ahmad and M.A. Darwish
Second law analysis of multieffect and multistage flash desalination plants 81(1991)449

M.A. Darwish, N.M. Al-Najem and M.S. Al-Ahmad
Second-law analysis of recirculating multi-stage flash desalting system 89(1993)289

M. Al-Ahmad and F.A. Aleem
Scale formation and fouling problems effect on the performance of MSF and RO desalination plants in Saudi Arabia 93(1993)287

M. Al-Ahmad and F.A. Aleem
Scale formation and fouling problems and their predicted reflection on the performance of desalination plants in Saudi Arabia 96(1994)409

Al-Ahmed M. I.

I.S. Al-Mutaz and M.I. Al-Ahmed
Evaluation of solar powered desalination process 73(1989)181

Al-Ajlan A.M.

S. Al-Zahrani, A.M. Al-Ajlan and A.M. Al-Jardan
Using different types of anti-scalants at the Al-Jubail Power and Desalination Plant in Saudi Arabia 97(1994)17

Al-Alawi A.

S. Khalaf and A. Al Alawi
Maintenance philosophy and approach for a dual purpose plant 96(1994)273

Al-Amri M. M. I.

A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
Performance evaluation of SWCC SWRO plants 74(1989)37

Al-Anbuky A.H.

A.H. Al-Anbuky and K.H. Danial
A flexible data acquisition and monitoring system 92(1993)271

Al-Ansari M.

A. Khater, S. Dannish and M. Al-Ansari
Privatization as a financing alternative for desalination plants in Bahrain 97(1994)281

Al-Arifi A.

A. Al-Arifi, M.E. El-Dahshan and M.I. Hazzaa
The effect of molybdenum on the corrosion behaviour of steel alloy in sea water 97(1994)77

Al-Arrayedh M.

M. Al-Arrayedh, B. Ericsson and M. Ohtani
Construction and operation of 46,000 m3/day reverse osmosis desalination plant, RA'S Abu Jarjur, Bahrain 55(1985)319

R.P. Birch, M. Al-Arrayedh and B. Hallmans
Bahrain's fresh groundwater situation and the investigations into using Bahrain's brackish water resources as a feedwater for the reverse osmosis desalination programme 55(1985)397

M. Al-Arrayedhy
Pre- and post-treatment at the RO plant at Ra's Abu Jarjur, Bahrain 63(1987)81

M. Al-Arrayedh, B. Ericsson, M. Amin Saad and H. Yoshioka
Reverse osmosis desalination plant, RA's Abu Jarjur, State of Bahrain — Two years operational experience for the 46,000 m3/day RO plant 65(1987)197

M. Al-Arrayedh, K. Burashid and K. Almansoor
RAJJ RO plant operational costs optimization 97(1994)235

Al-Assar R.

R. Al-Assar, H.E. Hömig and K. Maurath
Cost of producing power and water in a combined power station and seawater desalination plant 40(1982)311

Al-Atiqi I. M.

I.M. Alatiqi, A.H. Ghabris and S. Ebrahim
System identification and control of reverse osmosis desalination 75(1989)119

Al-Atram F.

M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari
Pretreatment of the municipal wastewater feed for reverse osmosis plants 109(1997)211

Al-Awadhi N.

G. Hamer, T. Egli and N. Al-Awadhi
Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions 72(1989)31

Al-Awadi F. M.

F. Al-Awadi and M. Abdel-Jawad
Evaluation of the three post-treatment systems at Doha seawater reverse osmosis plant — Kuwait 63(1987)109

N.A. Latif, F.M. Al-Awadi and B.A. Colenutt
Trihalomethanes (THMs) formation in multi-stage flash (MSF) distillation plants 74(1989)205

Al-Azzaz A.

A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch
Jeddah stack emissions problems and solutions 73(1989)459

Al-Baghdadi A.M.

A.M. Al-Baghdadi
Feasibility of installing back pressure turbine at Umm Al Nar East station 93(1993)147

Al-Bakeri F.

F. Al-Bakeri and H. El Hares
Optimization of sponge ball cleaning system operation and design in MSF plants 92(1993)353

F. Al-Bakeri and H. El Hares
Experimental optimization of sponge ball cleaning system operation in Umm Al Nar MSF desalination plants 94(1993)133

Al-Bastaki N.M.S.

N.M.S. Al-Bastaki
Behavior of stepped GRP shells used in the reverse osmosis permeators for the water desalination process 94(1994)307

N.M. Al-Bastaki and H.I. Al-Qahtani
Assessment of thermal effects on the reverse osmosis of salt/water solutions by using a spiral wound polyamide membrane 99(1994)159

H.I. Al-Qahtany and N.M.S. Al-Bastaki
Effect of aging on the performance of RO hollow fiber membranes in a section of an RO plant 101(1995)177

Al-Borno A. Y.

A.Y. Al-Borno and M. Abdel-Jawad
Conventional pretreatment of surface seawater for reverse osmosis application, state of the art 74(1989)3

Al-Dawas M.

M. Al-Shammiri and M. Al-Dawas
Maximum recovery from seawater reverse osmosis plants in Kuwait 110(1997)37

Al-Enezi G.A.

G.A. Al-Enezi, H. Shaban and M.S.E. Abdo
Total organic carbon reduction of phenol-containing wastewaters by oxidation techniques 95(1994)1

Al-Faisal M.

M. Al-Faisal
Water supply and weather modifications through the use of transported icebergs from the Antarctic 20(1977)415

Al-Fozan S.A.

A.U. Malik, P.C. Mayan Kutty, I.N. Andijani and S.A. Al-Fozan
Materials performance and failure evaluation in SWCC MSF plants 97(1994)171

A.U. Malik and S.A. Al-Fozan
Localized corrosion of AISI 316L S.S in Arabian Gulf seawater 97(1994)199

Al-Ghamdi M. F.

M.F. Al-Ghamdi, C.H. Hughes and S. Kotake
The Makkah-Taif MSF desalination plant 66(1987)3

Al-Gholaikah HE A. M.

A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton
The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia 27(1978)215

A.M. Al-Golaikah
Desalination by the saline water conversion corporation of Saudi Arabia 50(1984)83

Al-Gobaisi D. M. K.

D.M.K. Al-Gobaisi, A.S. Barakzai and A.M El-Nashar
An overview of modern control strategies for optimizing thermal desalination plants 84(1991)3

A. Al-Radif, D.M.K. Al-Gobaisi, A.M. El-Nashar and M.S. Said
Review of design and specifications of the world largest MSF units 4x(10-12.8 MIGD) 84(1991)45

A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation 92(1993)21

A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control 92(1993)43

D.M.K. Al-Gobaisi, A.S. Barakzai, M.A. Aziz and A. Hassan
Manageable automation systems for power and desalination plants 92(1993)211

A. Kurdali, A. Woldai and D.M.K. Al-Gobaisi
Knowledge based systems for desalination processes 92(1993)295

A.F. Abdulbary, L.L. Lai, D.M.K. Al-Gobaisi and A. Husain
Experience of using the neural network approach for identification of MSF desalination plants 92(1993)323

D.M.K. Al-Gobaisi
Conceptual specification for improved automation and total process care in large-scale desalination plants of the future 95(1994)287

D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani
Towards improved automation for desalination processes. Part I: Advanced control 97(1994)469

G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz
Towards improved automation for desalination processes. Part II: Intelligent control 97(1994)507

D.M.K. Al-Gobaisi
A quarter-century of seawater desalination by large multistage flash plants in Abu Dhabi (Plant performance analysis, assessment, present efforts toward enhancement and future hopes) 99(1994)483

M. Chidambaram, B. Chandasekhara Reddy and D.M.K. Al-Gobaisi
Design of robust SISO Pl controllers for a MSF desalination plant 109(1997)109

R. Rautenbach, T. Linn and D.M.K. Al-Gobaisi
Present and future pretreatment concepts - Strategies for reliable and low-maintenance reverse osmosis seawater desalination 110(1997)97

Al-Haddad A.

G. Aly, A. Al-Haddad and M. Abdel-Jawad
Parametric study on falling-film seawater desalination 65(1987)43

Al-Hajaj A.W.

M. Farid and A.W. Al-Hajaj
Solar desalination with a humidification-dehumidification cycle 106(1996)427

Al-Hallaj S.M.

N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi
A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan 109(1997)277

Al-Hamdan A.

A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
Performance evaluation of SWCC SWRO plants 74(1989)37

Al-Hawaj O.

O. Al-Hawaj and M.A. Darwish
Performance characteristics of a multi effect solar pond desalting system in an arid environment 96(1994)3

O. Al-Hawaj and M.A. Darwish
A solar pond assisted multi-effect desalting system 99(1994)119

Al-Hijji A.

S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji
Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique 110(1997)85

Al-Homoud A. A.

R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari
Cost-effectiveness of solar water production 71(1989)165

Al-Hossani H.I.

H.I. Al Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din
Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water 109(1997)25

Al-Hoti B. A.

B.A. Al-Hoti
A predictive model to find the optimum chlorine treatment scenario for biofouling control 74(1989)227

B.A. Al-Hoti and R. Abdullah
Reuse of collected stormwater runoff for irrigation in Kuwait 75(1989)329

Al-Hussain M. A.

N. Nada, D. Khumayyis and M. Al-Hussain
Economical evaluation of Alkhobar Phase Two 50 MIGPD at three different mode of operation 55(1985)43

M.A. Al-Sofi, M.A. Al-Hussain and S.G. Al-Zahrani
Additive scale control optimization and operation modes 66(1987)11

M.A.K. Al-Sofi, M.A. Al-Hussain, A.A.A. Al-Omran and K.M. Farran
A full decade of operating experience on Al-Khobar-II multi-stage flash (MSF) evaporators (1982-1992) 96(1994)313

Al-Jardan A.M.

S. Al-Zahrani, A.M. Al-Ajlan and A.M. Al-Jardan
Using different types of anti-scalants at the Al-Jubail Power and Desalination Plant in Saudi Arabia 97(1994)17

Al-Jarrah S.

A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
Performance evaluation of SWCC SWRO plants 74(1989)37

Al-Karaghouli A. A.

M.A. Al-Abbasi, A.A. Al-Karaghouli and A.N. Minasian
Photochemically assisted solar desalination of saline water 86(1992)317

Al-Kasabi T. O.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

Al-Kebti F.S.

F.S. Al-Kebti, E.Z. Isnasious and A.M. Al-Mahyas
Practical observations on reverse osmosis plants including raw water contamination problems, different intake stations and permeator performance 93(1993)259

Al-Khafaji A. A.

A.A. Al-Khafaji and D.A. Howarth
Wastewater reclamation and reuse in Europe, Middle East and North Africa 75(1989)289

Al-Lian L.

Ling Al-Lian, Zheng Yong-Zhuang, Bao Shi-Yao and Fan Song-Chun
An acrylonitrile copolymer material for membrane manufacture. III. Manufacture of a co-mixed UF membrane of AN-MMA binary copolymer and polyvinyl chloride 86(1992)291

Al-Lohibi T.

A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
Performance evaluation of SWCC SWRO plants 74(1989)37

Al-Mahyas A.M.

F.S. Al-Kebti, E.Z. Isnasious and A.M. Al-Mahyas
Practical observations on reverse osmosis plants including raw water contamination problems, different intake stations and permeator performance 93(1993)259

Al-Malack M.H.

M.H. Al-Malack and G.K. Anderson
Use of MnO2 as a dynamic membrane with crossflow microfiltration: Slow membraning technique 109(1997)15

Al-Mansour M.

S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji
Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique 110(1997)85

Al-Marafie A. M. R.

A.M.R. Al-Marafie and M.A. Darwish
Water production in Kuwait - Its management and economics 71(1989) 45

R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari
Cost-effectiveness of solar water production 71(1989)165

A.M.R. Al-Marafie
Prospects of hybrid RO-MSF desalting plants in Kuwait 72(1989)395

Al-Mazidi S. M.

S.M. Al-Mazidi
Implementation of technology assessment investment techniques on water desalination 103(1995)39

Al-Mudaiheem A. M.

A.M. Al-Mudaiheem and H. Miyamura
Construction and commissioning of Al Jobail Phase II desalination plant 55(1985)1

Al-Munayyis A.

H.E. Al-Rqobah and A. Al-Munayyis
A recarbonation process for treatment of distilled water produced by MSF plants in Kuwait 73(1989)295

Al-Mutaz I. S.

I.S. Al-Mutaz
By-product recovery from Saudi desalination plants 64(1987)97

I.S. Al-Mutaz
Water resources development in Riyadh, Saudi Arabia 64(1987)193

I.S. Al-Mutaz and K.M. Wagialla
Techno-economic feasibility of extracting minerals from desalination brines 69(1988)297

I.S. Al-Mutaz
Treated wastewaters as a growing water resource for agriculture use 73(1989)27

I.S. Al-Mutaz and M.I. Al-Ahmed
Evaluation of solar powered desalination process 73(1989)181

I.S. Al-Mutaz and M.A. Soliman
Simulation of MSF desalination plants 74(1989)317

A.E.S. Al-Zahrani, M.A. Soliman and I.S. Al-Mutaz
An approximate analytical solution for the performance of reverse osmosis plants 75(1989)15

I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem
Optimum design for a hybrid desalting plant 76(1989)177

I.S. Al-Mutaz
Evaluation of energy recovery in reverse osmosis desalination plants 82(1991)142

I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani
Parametric study on the performance of hollow fibers modules 83(1991)373

I.S. Al-Mutaz and M.A. Soliman
Optimum operation of steam-power cycle in dual MSF desalination plants 84(1991)103

I.S. Al-Mutaz
Operation of dual MSF desalination at water/power peak demand 84(1991)105

I.S. Al-Mutaz
A comparative study of RO and MSF desalination plants 106(1996)99

I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani
Modeling and simulation of hollow fine fiber modules with radial dispersion - A parametric sensitivity study 110(1997)239

Al-Naafa M.A.

H.K. Abdel-Aal and M.A. Al-Naafa
Enhanced evaporation of saline water in multi-purpose solar desalination units 93(1993)557

Al-Najem N. M.

M.A. Darwish and N.M. Al-Najem
Energy consumptions and costs of different desalting systems 64(1987)83

M.A. Darwish, N.M. Al-Najem, T. Froment and J. de Gunzbourg
The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures 74(1989)277

M.A. Darwish, N.M. Al-Najem and M.S. Al-Ahmad
Second-law analysis of recirculating multi-stage flash desalting system 89(1993)289

M.A. Darwish, F.A. Yousef and N.M. Al-Najem
Energy consumptions and costs with a multi-stage flashing (MSF) desalting system 109(1997)285

N.M. Al-Najem, M.A. Darwish and F.A. Youssef
Thermovapor compression desalters: Energy and availability — Analysis of single- and multi-effect systems 110(1997)223

Al-Nakshabandi G. A.

F.Z. Elshibini and G.A. Al-Nakshabandi
A modified system of subsidizing distilled water in Kuwait 72(1989)235

Al-Omran A. A. A.

M.A.K. Al-Sofi, S. Khalaf and A. Al-Omran
Practical experience in scale control 73(1989)313

M.A.K. Al-Sofi, M.A. Al-Hussain, A.A.A. Al-Omran and K.M. Farran
A full decade of operating experience on Al-Khobar-II multi-stage flash (MSF) evaporators (1982-1992) 96(1994)313

Al-Owais A. A.

A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja
Operational experience of once through MSF desalination units 73(1989)327

Al-Qahtani H.I.

N.M. Al-Bastaki and H.I. Al-Qahtani
Assessment of thermal effects on the reverse osmosis of salt/water solutions by using a spiral wound polyamide membrane 99(1994)159

H.I. Al-Qahtany and N.M.S. Al-Bastaki
Effect of aging on the performance of RO hollow fiber membranes in a section of an RO plant 101(1995)177

H. Al-Qahtani
Effect of magnetic treatment on Gulf seawater 107(1996)75

Al-Radif A .

A. Al-Radif, D.M.K. Al-Gobaisi, A.M. El-Nashar and M.S. Said
Review of design and specifications of the world largest MSF units 4x(10-12.8 MIGD) 84(1991)45

A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation 92(1993)21

A. Al-Radif
Review of various combinations of a multiple effect desalination plant (MED) and a thermal vapour compression unit 93(1993)119

A.A. Al-Sum, A. Al-Radif and S. Aziz
Performance of materials used for the venting system in WED's desalination plants (MSF) 93(1993)517

R. Borsani, P. Bozzini, A. Germanà, P. Peluffo and A. Al Radif
12 migd multistage flash desalination plant. A challenge for the next years 96(1994)325

A. Al-Radif, R. Borsani and H. Sultan
Selection of materials for Taweelah "B" MSF desalination plant project (6x10-12.7 migd) 97(1994)3

E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal
Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi 97(1994)109

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

Al-Ramadan H.

H. El-Dessouky, H.I. Shaban and H. Al-Ramadan
Steady-state analysis of multi-stage flash desalination process 103(1995)271

Al-Ramadhan M.

G.P. Maheshwari, M. Al-Ramadhan and M. Al-Abdulhadi
Energy requirement of water production in dual-purpose plants 101(1995)133

Al-Rqobah H. A.

H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly
Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination 66(1987)423

H.E. Al-Rqobah and A. Al-Munayyis
A recarbonation process for treatment of distilled water produced by MSF plants in Kuwait 73(1989)295

B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad
Predictability of membrane performance of reverse osmosis systems for seawater desalination 75(1989)55

Al-Saati A. J.

A.J. Al-Saati and M.M.A. Khan
Design, operation and maintenance problems of small reverse osmosis treatment plants in Riyadh region, Saudi Arabia 82(1991)141

Al-Saleh S.A.

S.A. Al-Saleh and A.R. Khan
Evaluation of Belgard EV 2000 as antiscalant control additive in MSF plants 97(1994)87

S.A. Al-Saleh and A.R. Khan
Comparative study of two anti-scale agents Belgard EVN and Belgard EV 2000 in multi-stage flash distillation plants in Kuwait 97(1994)97

Al-Saqabi A.

T.A. Dabbagh and A. Al-Saqabi
The increasing demand for desalination 73(1989)3

Al-Shammari S.

M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari
Pretreatment of the municipal wastewater feed for reverse osmosis plants 109(1997)211

Al-Shammiri M.

M. Al-Shammiri and M. Al-Dawas
Maximum recovery from seawater reverse osmosis plants in Kuwait 110(1997)37

Al-Shatti I.

I. Al-Shatti
Towards the use of industrial wastewater for irrigation in Kuwait 72(1989)115

Al-Sheikh A.H.H.

A.H.H. Al-Sheikh
Seawater reverse osmosis pretreatment with an emphasis on Jeddah plant operation experience 110(1997)183

Al-Sofi M. A. K.

M. Al-Sofi, R.D. Peterson, D.L. Moen, Y. Soejima and H. Sawada
Thermal performance of 10 x 5.2 MIGD MSF plants, Al Jobail Phase II 55(1985)357

M.A. Al-Sofi, M.A. Al-Hussain and S.G. Al-Zahrani
Additive scale control optimization and operation modes 66(1987)11

M.A.K. Al-Sofi, S. Khalaf and A. Al-Omran
Practical experience in scale control 73(1989)313

M.A.-K. Al-Sofi
Integrated production of power and water 76(1989)89

M.A.K. Al-Sofi, M.A. Al-Hussain, A.A.A. Al-Omran and K.M. Farran
A full decade of operating experience on Al-Khobar-II multi-stage flash (MSF) evaporators (1982-1992) 96(1994)313

M.A.-K. Al-Sofi
Water scarcity - The challenge of the future 98(1994)425

M.A.K. Al-Sofi and M.M. Srouji
Fuel allocation in dual-purpose plants 100(1995)65

Al-Sulaiman F.A.

F.A. Al-Sulaiman and B. Ismail
Exergy analysis of major recirculating multi-stage flash desalting plants in Saudi Arabia 103(1995)265

Al-Sulaiman K.M.

I.I. Kutbi and K.M. Al-Sulaiman
Features of nuclear desalination systems for Saudi Arabia 97(1994)327

Al-Sum E. A.

A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum
Corrosion experience data bank system for desalination and power plants (Corex) 84(1991)251

E.A. Al-Sum, A. Sattar and M. Abdul Aziz
Automation of water treatment plants and its application in power and desalination plants 92(1993)309

A.A. Al-Sum, A. Al-Radif and S. Aziz
Performance of materials used for the venting system in WED's desalination plants (MSF) 93(1993)517

E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal
Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi 97(1994)109

A. Hassan, E.A. Al-Sum and S. Aziz
Storage and retrieval of corrosion data of desalination plant owners 97(1994)131

Al-Taweel A. M.

A.M. Al-Taweel, A. Bushnak and W. Bawarith
Desalination and the reuse of agricultural drainage waters in Saudi Arabia 32(1980)341

M.A. Mandil, S.H. Eissa, A.O. Farag, A. El-Nikhely, F. Abdel Salam and A.M. Al-Taweel
Reciprocating plate reactors for water reuse 47(1983)275

Al-Wazzan Y.

J. Carew, M. Abdel-Jawad, A. Julka and Y. Al-Wazzan
Performance of materials used in seawater reverse osmosis plants 74(1989)85

J.A. Carew, M. Abdel-Jawad and Y. Al-Wazzan
Evaluation of corrosion-resistant alloys for desalination applications 95(1994)53

Al-Zahrani A. E. S.

A.E.S. Al-Zahrani, M.A. Soliman and I.S. Al-Mutaz
An approximate analytical solution for the performance of reverse osmosis plants 75(1989)15

I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani
Parametric study on the performance of hollow fibers modules 83(1991)373

I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani
Modeling and simulation of hollow fine fiber modules with radial dispersion - A parametric sensitivity study 110(1997)239

Al-Zahrani H. M.

F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani
Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia 45(1983)345

F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin
Field trials of hybrid acid-additive treatment for control of scale in MSF plants 54(1985)307

H. Al-Zahrani, S. Somuah and N.M.A. Eid
Localized corrosion behavior in stainless structural steels weldments under desalination plant condition 84(1991)349

Al-Zahrani S. G.

M.A. Al-Sofi, M.A. Al-Hussain and S.G. Al-Zahrani
Additive scale control optimization and operation modes 66(1987)11

N. A. Nada, Al-Zahrani and B. Ericsson
Experience on pre- and post-treatment from seawater desalination plants in Saudi Arabia 66(1987)303

S. Al-Zahrani, A.M. Al-Ajlan and A.M. Al-Jardan
Using different types of anti-scalants at the Al-Jubail Power and Desalination Plant in Saudi Arabia 97(1994)17

Al-Zubaidi A. A. J.

A.A.J. Al-Zubaidi
Sea water desalination in Kuwait — A report on 33 years experience 63(1987)1

A.A.J. Al-Zubaidi
Technoeconomics of power/desalting cogeneration plants in Kuwait - A preliminary study 76(1989)121

A.A.J. Al-Zubaidi
Parametric cost analysis study of seawater reverse osmosis systems design in Kuwait 76(1989)241

Alabdula'aly A.I.

A.I. Alabdula'aly and A.A. Chammem
KACST mobile drinking water treatment plant for research 98(1994)71

Alansari M. S.

S.R. Ahmed, M.S. Alansari and T. Kannari
Biological fouling and control at Ras Abu Jarjur RO Plant - A new approach 74(1989)69

Alarrayedh M.

S. Khalaf, M. Alarrayedh and A.M. Alawadi
Operational experience of 2 x 11,500 m3d MSF seawater desalination plant 39(1981)219

Alatiqi I.M.

M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi
Model based control for reverse osmosis desalination processes 104(1996)59

Alawadhi A.A.

A.A. Alawadhi
Pretreatment plant design - Key to a successful reverse osmosis desalination plant 110(1997)1

Alawadi A. M.

S. Khalaf, M. Alarrayedh and A.M. Alawadi
Operational experience of 2 x 11,500 m3d MSF seawater desalination plant 39(1981)219

Alayli Y.

Y. Alayli, N.E. Hadji and J. Leblond
A new process for the extraction of water from air 67(1987)227

Albano B.

J. Block, B.M. Watson, L.A. Burkholder and B. Albano
Effect of iron and copper during scale suppression by threshold compounds 15(1974)279

Albers W.

R. Larson, W. Albers, J. Beckman and S. Freeman
The carrier-gas process — a new desalination and concentration technology 73(1989)119

Albet J.

F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra
Estudio de viabilidad de una central nuclear de doblo uso para la zona Catalana 5 suppl.(1969)261

Alcaina M.I.

M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal
Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination 108(1996)83

Aleem F. A.

M. Al-Ahmad and F.A. Aleem
Scale formation and fouling problems effect on the performance of MSF and RO desalination plants in Saudi Arabia 93(1993)287

M. Al-Ahmad and F.A. Aleem
Scale formation and fouling problems and their predicted reflection on the performance of desalination plants in Saudi Arabia 96(1994)409

Alefeld G.

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

Alexander L.G.

D.G. Thomas and L.G. Alexander
Improved high-performance fluted tube for thin-film evaporation and condensation 8(1970)13

Alexander S S.

W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander
Recent developments in electrodialysis at elevated temperatures 4(1968)236

R.B. Hodgdon, E. Witt and S.S. Alexander
Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants 13(1973)105

Alexandrova I.

A.D. Dimov and I. Alexcandrova
Preparation of ion-exchange membranes from modified polyethylene with high molecular weight 46(1983)361

Alexandrowicz G.

G. Belfort, G. Alexandrowicz and B. Marx
Artificial particulate fouling of hyperfiltration membranes 19(1976)127

Alhajji J.N.

M.R. Reda and J.N. Alhajji
A comparative study of common metals scavenging efficiency for aqueous sulfide or sulfite pollutants in salt solution 94(1994)273

Ali G.

G. Ali, J.H. Dalton, P.D. Judges and C. Tao
Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1 76(1989)27

Ali S.S.

S.S. Ali
Solar desalination in Sudan 93(1993)581

Ali Asbi B .

B. Ali Asbi and M. Cheryan
Optimizing process time for ultrafiltration and diafiltration 86(1992)49

Ali El-Saie M. H.

M.H. Ali El-Saie
History, experience and economics of water production in Kuwait 1(1966)77

J. Suárez and M.H.A. El-Saie
Las Palmas 20,000-m3/d flash-distillation dual-purpose water and power plant 5 suppl.(1969)239

M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim
Sea water intake and its effect on heat rejection design and material for flash distillation plant 38(1981)257

M.H.A. El-Saie, M.F. Farrag and M.H. Erfan
Computer supervisory control of multi stage flash evaporator 55(1985)107

M.H. Ali El Saie, M.S.I. El Kafrawi and M.I. Kamel
Study of the operating conditions for three large MSF desalination units each of capacity 7.2/8.6 mgd (27360/32832 ton/day) in Abu Dhabi, UAE 73(1989)207

M.H. Ali El-Saie and Y.M.H. Ali El-Saie
Optimization of dual-purpose steam power and MSF desalination plant 76(1989)155

M.H. Ali El-Saie
Desalination at the crossroads 78(1990)305

M.H. Ali El-Saie
The MSF desalination process and its prospects for the future 93(1993)43

M.H. Ali El-Saie and M.H. Erfan Hafez
Selecting and tuning the control loops of MSF desalination for robustness 97(1994)529

Ali El-Saie Y. M. H.

M.H. Ali El-Saie and Y.M.H. Ali El-Saie
Optimization of dual-purpose steam power and MSF desalination plant 76(1989)155

Alkcmadc M. M. C.

J.P. Brouwer, M.M.C. Alkemade and G. Bierman
Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream 101(1995)211

Allam I. M.

H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin
Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf 78(1990)327

Allard J. J.

J.J. Allard, J.M. Rovel and P. Treille
Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs 19(1976)169

J.J. Allard, J.M. Rovel and P. Treille
Potable water supply of Riyadh, the Saudi Arabia Kingdom's capital city, by reverse osmosis desalting plants 20(1977)227

Allegrezza Jr. A. E.

A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
Hollow fiber composite reverse osmosis membrane 20(1977)87

A.E. Allegrezza, Jr., B.S. Parekh, P.L. Parise, E.J. Swiniarski and J.L. White
Chlorine resistant polysulfone reverse osmosis modules 64(1987)285

Allen P. K.

P.K. Allen
Desalting's role in future water resource management 19(1976)483

P. Allen, W. Whittenberg and D. Argo
Planning to meet future water requirements by Orange County, California 23(1977)471

P.K. Allen and G.L. Elser
They said it couldn't be done — The Orange County, California experience 30(1979)23

Allison R. P.

R.P. Allison
Electrodialysis reversal in water reuse applications 103(1995)11

Almansoor K.

M. Al-Arrayedh, K. Burashid and K. Almansoor
RAJJ RO plant operational costs optimization 97(1994)235

Almås K. A.

K.A. Almås
Applications of crossflow membrane technology in the fishing industry 53(1985)167

Altena F.W.

L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
Asymmetric membrane structures as a result of phase separation phenomena 32(1980)33

H. Bokhorst, F.W. Altena and C.A. Smolders
Formation of asymmetric cellulose acetate membranes 38(1981)349

G. Belfort and W. Altena
Towards an inductive understanding of membrane fouling 47(1983)105

F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
Particle motion in a laminar slit flow: a fundamental fouling study 47(1983)221

Altmann T.

T. Altmann
DPMS - Desalination Plant Management System 107(1996) 53

Alward R.

E.R. Lising and R. Alward
Unsteady state operation of a reverse osmosis desalination unit 11(1972)261

J. Ayoub and R. Alward
Water requirements and remote arid areas: The need for small-scale desalination 107(1996)131

Aly G. S.

G. Aly
Computer simulations of multiple-effect FFE-VC systems for water desalination 45(1983)119

G. Aly, A. Al-Haddad and M. Abdel-Jawad
Parametric study on falling-film seawater desalination 65(1987)43

H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly
Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination 66(1987)423

M.A. Darwish, M. Abdel-Jawad and G.S. Aly
Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants 72(1989)367

B.A.Q. Darwish, M. Abdel-Jawad and G.S. Aly
On the standardization of performance data for reverse osmosis desalination plants 74(1989)125

M.A. Rimawi, H.M. Ettouney and G.S. Aly
Transient model of multistage flash desalination 74(1989)327

B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad
Predictability of membrane performance of reverse osmosis systems for seawater desalination 75(1989)55

A.H. Ghabris, M. Abdel-Jawad and G.S. Aly
Municipal wastewater renovation by reverse osmosis. State of the art 75(1989)213

M.A. Darwish, M. Abdel-Jawad and G.S. Aly
Technical and economical comparison between large capacity MSF and RO desalting plants 76(1989)281

M.A. Darwish, M. Abdel Jawad and G.S. Aly
Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants 78(1990)313

Aly N.H.

M.A. Marwan, N.H. Aly and M.S. Saadawy
Simple code for the estimation of scaling potential 101(1995)279

N.H. Aly and M.A. Marwan
Dynamic behavior of MSF desalination plants 101(1995)287

N.H. Aly and S.D. Bedrose
Enhanced film condensation of steam on spirally fluted tubes 101(1995)295

Aly S. A.

O.A. Hamed and S. Aly
Simulation and design of MSF desalination processes 80(1991)1

Aly S. E.

M.A. Darwish, K.A. Fathalah and S.E. Aly
Comparative study between vapor compression and multi effect boiling desalination systems 45(1983)77

S.E. Aly
Energy savings in distillation plants by using vapor thermo-compression 49(1984)37

M.A. Darwish, S.E. Aly and K.A. Fathalah
Comparative study between conventional and vapor compression multi-effect desalination systems 49(1984)153

S.E. Aly
Combined RO/VC desalination system 58(1986)85

S.E. Aly
Efficient energy utilization in single purpose desalination plants 58(1986)99

S.E. Aly
Analysis of a diesel dual plant 64(1987)137

K. Fathalah, S.E. Aly, M. Darwish and A. Radhwan
A theoretical study of enhanced condensation over horizontal fluted tubes 65(1987)25

S.E. Aly
Vapour compression distillation using waste heat absorption systems 68(1988)57

S.E. Aly
Humidity water vapour collection by absorption cooling machines 73(1989)139

A.A. Madani and S.E. Aly
A combined RO/freezing system to reduce inland rejected brine 75(1989)241

S.E. Aly
Analysis of a fuel-solar assisted central dual purpose plant 78(1990)363

K. Fathalah and S.E. Aly
Theoretical study of a solar powered absorption/MED combined system 82(1991)245

S.E. Aly
Analysis of a fuel-solar assisted central DPP 82(1991)246

S.E. Aly
Theoretical analysis of a novel modified recirculation multi-stage flash low temperature system 95(1994)189

S.E. Aly
A study of a new thermal vapor compression/multi-effect stack (TVC/MES) low temperature distillation system 103(1995)257

Alzhanov F. B.

L.A. Shishliannikov and F.B. Alzhanov
Operating experience of EDU-series electrodialysis plants used in different industries in the USSR 58(1986)77

Amar P.

H. Strathmann, K. Kock, P. Amar and R.W. Baker
The formation mechanism of asymmetric membranes 16(1975)179

Amer H. I.

Y.I. El-Akeel and H.I. Amer
Mineralogy of scales in the brine heater tubes 23(1977)255

Amin A.

K. Habib and A. Amin
Electrochemical behaviour of Al-brass in natural seawater 85(1992)275

Amin M.

F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin
Field trials of hybrid acid-additive treatment for control of scale in MSF plants 54(1985)307

Amjad Z.

Z. Amjad
Applications of antiscalants to control calcium sulfate scaling in reverse osmosis systems 54(1985)263

Ammerlaan A. C. F.

A.C.F. Ammerlaan
Seawater desalting energy requirements as a function of various local conditions 40(1982)317

A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody
Yuma Desalting Plant. Membrane degradation during test operations 88(1992)33

A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody
Controlling loss of salt rejection and water flux at the Yuma Desalting Plant 96(1994)421

Ampaya J.P.

R.A. Wallace and J.P. Ampaya
Transport within ion-exchange membranes 14(1974)121

Andeen G. B.

G.B. Andeen
Effects of acceleration on reverse osmosis desalination 36(1981)265

J.C. Eid and G.B. Andeen
Effects of acceleration on particulate fouling in reverse osmosis 47(1983)191

J.C. Eid and G.B. Andeen
Effects of acceleration on spiral-wound membrane performance in reverse osmosis 52(1984)15

Anderson D. R.

D.R. Anderson and W.R. Mills
An integrated pretreatment system for high recovery reverse osmosis systems 22(1977)349

Anderson G.K.

M.H. Al-Malack and G.K. Anderson
Use of MnO2 as a dynamic membrane with crossflow microfiltration: Slow membraning technique 109(1997)15

Anderson J. E.

J.E. Anderson, W.S. Springer and G.G. Strosberg
Application of reverse osmosis to automotive electrocoat paint wastewater recycling 36(1981)179

J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr.
Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes 37(1981)307

Anderson J.M.

J.M. Anderson
The potential for water recycling in Australia — Expanding our horizons 106(1996)151

J.M. Anderson
A possible regulatory framework for water recycling in Australia 106(1996)331

Anderson T.D.

R.P. Hammond and T.D. Anderson
Technology needed for the economic use of desalted water in agriculture 5 suppl.(1969)785

Andersson S.-I.

S.-I. Andersson, N. Kjellander and B. Rodesjö
Design and field tests of a new membrane distillation desalination process 56(1985)345

Andijani I.N.

A.U. Malik, P.C. Mayan Kutty, I.N. Andijani and S.A. Al-Fozan
Materials performance and failure evaluation in SWCC MSF plants 97(1994)171

A.U. Malik, N.A. Siddiqi and I.N. Andijani
Corrosion behavior of some highly alloyed stainless steels in seawater 97(1994)189

A.U. Malik, T.L. Prakash and I. Andijani
Failure evaluation of desalination plants-some case studies 105(1996)283

Andres D.

J.A. Townley, S. Swanback and D. Andres
Recharging a potable water supply aquifer with reclaimed wastewater in Cambria, California 88(1992)341

Andrews B.

B. Andrews
Seawater reverse osmosis system projects, a manufacturer's viewpoint 25(1978)227

Andrews W. T.

T. Dupee and W. Andrews
Second report on the operation of a 75,000 gpd seawater reverse osmosis plant (Ras Al Mishab, Saudi Arabia) 22(1977)445

W.T. Andrews, J.H. Sleigh and R.A. Bergman
The Malta seawater reverse osmosis facility 46(1983)111

W.T. Andrews and R.A. Bergman
The Malta seawater RO facility 60(1986)135

W.T. Andrews
The Malta seawater RO facility — Update on the first two years operation 60(1986)145

Angel A.

M. Schaal, A. Schwartzman and A. Angel
Cost of marginal energy chargeable to desalination in the Israel Electric Corp. generating system 40(1982)87

Anokhina E. A.

O.D. Linnikov, V.L. Podbereznyi, E.A. Anokhina and O.V. Guseva
Efficiency of two scale prevention methods for desalting Caspian seawater 89(1993)311

Ansari Z. I.

S. Farooq and Z.I. Ansari
Philosophy of water reuse in Islamic perspective 39(1981)273

Antonelli A.

A. Antonelli
Desalinated water production at LNG terminals 45(1983)383

Antonoiou S.

S. Antoniou, J. Springer and A. Grohmann
Dynamic polyacrylamide membranes in the reverse osmosis 32(1980)47

Antonson C.R.

J.P. Agrawal, C.R. Antonson and N.W. Rosenblatt
Permeability measurements of flat seawater membranes 11(1972)71

Antunes F. F.

F.F. Antunes, R.E. Cornman and R.J. Hartkopf
Centrifugal pumps for desalination 38(1981)109

Aoki T.

E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki
Synthesis of poly(2,5-pyridinedicarboxylic acid-alt-hydrazine) and reverse osmosis performance of its membranes 94(1993)25

Anderson

E. Oikawa, M. Shingai, K. Motomi and T. Aoki
Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol 101(1995)69

Aouad N.

A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach
Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons 101(1995)141

Apperley L.W.

M. El-Hoz and L.W. Apperley
Removal of phosphorus from secondary effluent by a matrix filter 106(1996)247

Applegate L. E.

L.E. Applegate and C.T. Sackinger
Avoiding iron fouling in reverse osmosis desalination plants 61(1987)39

L.E. Applegate and C.W. Erkenbrecher, Jr.
Monitoring and control of biological activity in Permasep® seawater RO plants 65(1987)331

L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters
New chloramine process to control aftergrowth and biofouling in PermasepR B-10 RO surface seawater plants 74(1989)51

Aptel P.

P. Aptel and I. Cabasso
Development of a new asymmetric alloy membrane for water desalination 36(1981)25

J. Néel, P. Aptel and R. Clément
Basic aspects of pervaporation 53(1985)297

Arad N.

N. Arad, S.F. Mulford and J.R. Wilson
Prediction of large desalting plant availability factor 3(1967)378

Aragaki T.

S. Toyama, T. Aragaki, K. Murase and K. Tsumura
Simulation of a multieffect solar distillator 45(1983)101

S. Toyama, T. Aragaki, T. Sato and H. Kato
Hold up and flow of liquid film at a horizontal tube bundle 45(1983)289

S. Toyama, T. Aragaki, H.M. Salah and K. Murase
Dynamic characteristics of a multistage thermal diffusion type solar distillator 67(1987)21

Arai M.

K. Edahiro, T. Hamada, M. Arai and Y. Hirao
Research and development of multi-effect horizontal tube film evaporator 22(1977)121

Arain R. A.

A.M. Shams El Din, R.A. Arain and A.A. Hammoud
A contribution to the problem of trihalomethane formation from the Arabian Gulf water 85(1991)13

A.M. Shams El Din, A.A. Hammoud and R.A. Arain
Physico-chemical studies on BELGARD EV and BELGARD EV2000 solutions. Part I: Their densities and viscosities at various dilutions and temperatures 103(1995)199

Arato E.

P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
Using a homogeneous model in simulation of sea water desalination condenser 65(1987)123

Arazzini S.

S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito
Technical and economical evaluation of an MSF solar energy powered desalination plant 31(1979)443

S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini
Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant 38(1981)185

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 44(1983)29

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 49(1984)1

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 49(1984)1

S. Arazzini, R. Borsani, G. Migliorini and U. Zuboli
Economics of MSF plants: Influence of variations in the design parameters and use of different construction materials 52(1985)97

D.M. Khamis Fareigh and S. Arazzini
Description and mathematical model of a large MSF desalination plant in SCADA configuration 55(1985)91

G. Migliorini, B. Fumagalli and S. Arazzini
Theoretical approach to MSF stages efficiency calculation 55(1985)185

P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
Using a homogeneous model in simulation of sea water desalination condenser 65(1987)123

Argo D. G.

T.J. Larson and D.G. Argo
Large scale water reclamation by reverse osmosis 19(1976)421

P. Allen, W. Whittenberg and D. Argo
Planning to meet future water requirements by Orange County, California 23(1977)471

N.L. Richardson and D.G. Argo
Orange County's 5 mgd reverse osmosis plant 23(1977)563

D.G. Argo
Energy and water supply, Orange County, California 25(1978)135

Argyropoulos P.

T. Hodgkiess, N.K. Ng and P. Argyropoulos
The corrosion behaviour of a number of materials exposed to bromine-containing environments 55(1985)229

Arika M.

M. Arika, H. Kobayashi and H. Kihara
Pilot plant test of an activated sludge ultrafiltration combined process for domestic wastewater reclamation 23(1977)77

Arikan Y.

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Pilot plant study of desalination by direct contact heat transfer 13(1973)221

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Heat transfer to an immiscible liquid mixture and between liquids in direct contact 13(1973)231

Aritomi T.

T. Aritomi, T. van den Boomgaard and H. Strathmann
Current-voltage curve of a bipolar membrane at high current density 104(1996)13

Armstrong E. J.

E.J. Armstrong and R. Butler
A review of effluent re-use in Coffs Harbour: Desalination versus effluent re-use at Opal Cove Resort 106(1996)285

Arnal J. M.

J. Lora and J.M. Arnal
The effect of agitation on reverse osmosis desalination 79(1990)261

M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal
Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination 108(1996)83

Arndt M.

T. Hodgkiess, W.T. Hanbury, M. Arndt and N. Eid
Corrosion of welded samples in seawater 31(1979)399

Arneri G.

B. Kunst, G. Arneri and Z. Vajnaht
On the comparison of reverse osmosis membrane performance 16(1975)169-177, Err. 17(1975)395

G. Arneri
The effect of pressure on the bulk polymer microstructure in cellulose acetate reverse osmosis membranes 36(1981)99

G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard
The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes 46(1983)435

Arnold J. W.

J.W. Arnold
Operating experiences of a 15,000 cubic meter per day municipal desalting plant at Corfu, Greece 30(1979)145

Arora M. L.

J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter
Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities 48(1983)293

M.L. Arora and K.M. Trompeter
Fouling of RO membranes in wastewater applications 48(1983)299

Arthur S. D.

S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
Aromatic/cycloaliphatic polyamide membrane 64(1987)259

Arthur W. A.

R. Bakish and W. Arthur
An undergraduate program in desalination 23(1977)291

R. Bakish, E. Catanzaro and W. Arthur
Experiences from continuing education training in desalination 30(1979)443

H. Winters, I. Isquith, W.A. Arthur and A. Mindler
Control of biological fouling in seawater reverse osmosis desalination 47(1983)233

Arulampalam G. T.

G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath
Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions 36(1981)87

Arzt B.

R. Rautenbach and B. Arzt
Large scale diesel driven vapor compression units 38(1981)75

R. Rautenbach and B. Arzt
Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation 44(1983)121

R. Rautenbach and B. Arzt
Gas turbine waste heat utilization for distillation 52(1985)105

R. Rautenbach and B. Arzt
The development of high performance distillation plants 56(1985)261

Asada E.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Asada K.

T. Kawahara, K. Asada and T. Ishida
The development of a new electrodialyzer for desalination 23(1977)213

Aschner F. S.

F.S. Aschner, S. Yiftah and P. Glueckstern
Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination 3(1967)82

M. Schaal, F.S. Aschner and D. Hasson
Large long-tube vertical evaporators for sea water distillation 10(1972)67-93, Err. 10(1972)220

M. Schaal and F.S. Aschner
Dynamic behavior of thin film sea water evaporators 25(1978)233

Ase T.

K. Urano, T. Ase and Y. Naito
Recovery of acid from wastewater by electrodialysis 51(1984)213

Ashboren D.

D. Ashboren and M. Waldman
Water for life: Israel's R & D for water renovation and sweet water production 30(1979)213

Ashok K.

G.N. Tiwari, K. Mukherjee, K. Ashok and Y.P. Yadav
Comparison of various designs of solar stills 60(1986)191

Ashton M. R.

M.R. Ashton
The city of Cape Coral demonstrates reverse osmosis is cost effective and operationally efficient 65(1987)277

Asimakopoulos A.

T. Hodgkiess and A. Asimakopoulos
Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater 38(1981)247

Askerniya A.A.

F.N. Karelin, A.A. Askerniya, M.L. Gril and O.F. Parilova
Salt concentration and recovery from aqueous solutions using pressure-driven membrane processes 104(1996)69

Aspden J. D.

C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom
Desalination and reuse of power plant effluents: From pilot plant to full scale application 67(1987)255

Assassa G. M. R.

H.T.A. El-Dessouky and G.M.R. Assassa
Computer code for optimizing MSF desalination plant 45(1983)111

G.M.R. Assassa and H.T.A. El-Dessouky
Dynamic stability of MSF desalination plants 45(1983)133

H.T. El-Dessouky and G.M.R. Assassa
Computer simulation of the horizontal falling film desalination plant 55(1985)119

Assef J.Z.

M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi
Model based control for reverse osmosis desalination processes 104(1996)59

Assenmacher W.

E. Staude and W. Assenmacher
A contribution to fouling in hyperfiltration induced by chemical reaction 49(1984)215

E. Staude, W. Assenmacher and H. Hoffmann
Hyperfiltration of surfactants containing solutions from the plating industry 49(1984)321

Assimacopoulos D.

K. Papafotiou, D. Assimacopoulos and D. Marinos-Kouris
A knowledge based system for the design of RO desalination plants 82(1991)131

Aswed M.

M. Aswed and H. El-Hares
Two detailed case studies of large Libyan desalination plant and their influence on development 20(1977)239

H. El-Hares and M. Aswed
Desalination in the development of Libya. Problems of implementation and impact on environment 20(1977)249

H. El-Hares and M. Aswed
Practical behaviour of electrodialysis and reverse osmosis plants in Libya 22(1977)291

M. Aswed and H. El Hares
Cost comparison of effectively produced desalted water by different processes in a developing country 23(1977)285

M. Aswed and H. El Hares
Maintenance problems of the electrodialysis plants in Libya 27(1978)51

M. Aswed and A. Sunni
The future of water supply to Tripoli 30(1979)155

H. El-Hares and M. Aswed
Trends in Libyan desalination and water reuse policy 30(1979)163

Attia M. A.

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

Atwater R. W.

R.W. Atwater, L. Palmquist and J. Onkka
The West Basin Desalter Project: A viable alternative 103(1995)117

Audebert R.

I. Baudin, M. Millequant, A. Ricard and R. Audebert
Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment 86(1992)237

Audinos R.

R. Audinos and S. Paci
Water transport during the concentration of waste zinc sulfate solutions by electrodialysis 67(1987)523

R. Audinos and G. Pichelin
Characterization of electrodialysis membranes by chronopotentiometry 68(1988)251

Auerbach M. H.

M.H. Auerbach and M.S. Carruthers
Laboratory applications testing of desalination antiscalants 31(1979)279

M.H. Auerbach, J.J. O'Neill, R.A. Reimer and S.W. Walinsky
Foam control additives in MSF desalination 38(1981)159

Aussenac D.

D. Aussenac, S. Domenech and M. Enjalbert
Mathematical model of a mechanical vapour compression evaporator. Applicaliurl lu seawater desalting. Part I. The model settlement 41(1982)137

D. Aussenac, M. Enjalbert and S. Domenech
Mathematical model of a mechanical-vapor compression evaporator. Application to the production of freshwater by seawater desalination. Part II. Numerical exploitation 49(1984)117

Austin A. E.

A.E. Austin, J.F. Miller, N.A. Richard and J.F. Kircher
Precipitation of calcium sulfate from sea water at high temperatures 16(1975)331

A.E. Austin, J.F. Miller, D.A. Vaughan and J.F. Kircher
Chemical additives for calcium sulfate scale control 16(1975)345

Austing C.E.

J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence
The corrosion of aluminium alloys in hot brine 9(1971)245

C.E. Austing, A.M. Pritchard and N.J.M. Wilkins
The formation and properties of Al/Mg scales on Al heat-exchange surfaces in desalination plant 12(1973)251

Aveni A.

A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli
Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants 16(1975)135

Aviram A.

U. Fisher, A. Aviram and A. Gendel
Ashdod multi-effect low temperature desalination plant. Report on year of operation 55(1985)13

Avlonitis S.

S. Avlonitis, W.T. Hanbury qand M. Ben Boudinar
Spiral wound modules performance. An analytical solution. Part I 81(1991)191

S. Avlonitis, W.T. Hanbury and T. Hodgkiess
Chlorine degradation of aromatic polyamides 85(1992)321

M. Ben Boudinar, W.T. Hanbury and S. Avlonitis
Numerical simulation and optimisation of spiral-wound modules 86(1992)273

S. Avlonitis, W.T. Hanbury and M. Ben Boudinar
Spiral wound modules performance. An analytical solution: Part II 89(1993)227

Avriel M.

D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
Calcium carbonate scale deposition on heat transfer surfaces 5(1968)107

M. Avriel and N. Zelingher
A computer method for engineering and economic evaluation of electrodialysis plants 10(1972)113

Awerbuch L.

T.E. Lindemuth and L. Awerbuch
A new look at dual-purpose plant design 17(1975)75

L. Awerbuch and A.N. Rogers
Use of double-fluted tubes in vertical preheaters and condensers of MSF distillation plants 17(1975)121

L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers
Geothermal energy recovery process 19(1976)325

A.Z. Barak, L. Awerbuch and R.H. Horowitz
The Joint United States/Israel desalination project: Progress report 23(1977)553

L. Awerbuch, A. Maddagiri, F.E. Swart and A.N. Rogers
Coupling of a power plant with a low temperature multi-effect desalination plant 44(1983)177

R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen
Parametric study on seawater reverse osmosis desalting plants 46(1983)3

L. Awerbuch
Future developments in desalination distillation processes 50(1984)61

L. Awerbuch and A.N. Rogers
The technical and economic implications of measurement and control errors in water desalination 59(1986)1

L. Awerbuch, V. van der Mast and R. Soo-Hoo
Hybrid desalting systems — A new alternative 64(1987)51

A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch
Jeddah stack emissions problems and solutions 73(1989)459

L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast
Hybrid desalting systems 76(1989)189

L. Awerbuch and M.C. Weekes
Disposal of concentrates from brackish water desalting plants by means of evaporation technology 78(1990)71

L. Awerbuch and M.A. Daye
Durability of concrete structures in the hostile service environment of desalination plants 97(1994)221

J. Chen, H.S. Lu and L. Awerbuch
Seawater desalination to augment the water supply on Penghu Island, Taiwan 97(1994)319

L. Awerbuch
Perspective and challenges for desalination 99(1994)191

Awn A.A.

S.M. El-Haggar and A.A. Awn
Optimum conditions for a solar still and its use for a greenhouse using the nutrient film technique 94(1993)55

Ayoub J.

J. Ayoub and R. Alward
Water requirements and remote arid areas: The need for small-scale desalination 107(1996)131

Ayyash Y.

Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama
Performance of reverse osmosis membrane in Jeddah Phase I plant 96(1994)215

Aziz M. A.

D.M.K. Al-Gobaisi, A.S. Barakzai, M.A. Aziz and A. Hassan
Manageable automation systems for power and desalination plants 92(1993)211

G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz
Towards improved automation for desalination processes. Part II: Intelligent control 97(1994)507

Aziz S.

A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum
Corrosion experience data bank system for desalination and power plants (Corex) 84(1991)251

H. Osman, A.H. Sultan, A. Radif and S.A. Aziz
Large pumps in power and desalination plants 93(1993)181

A.A. Al-Sum, A. Al-Radif and S. Aziz
Performance of materials used for the venting system in WED's desalination plants (MSF) 93(1993)517

E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal
Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi 97(1994)109

A. Hassan, E.A. Al-Sum and S. Aziz
Storage and retrieval of corrosion data of desalination plant owners 97(1994)131

A.M. Shams El Din, S. Aziz and B. Makkawi
Electricity and water production in the Emirate of Abu Dhabi and its impact on the environment 97(1994)373

Azpitarte R.U.

A.A. Mesa, C.M. Gómez and R.U. Azpitarte
Energy saving and desalination of water 108(1996)43

A.A. Mesa, C.M. Gómez and R.U. Azpitarte
Design of the maximum energy efficiency desalination plant (PAME) 108(1996)111

Azumi T.

R. Dohno, T. Azumi and S. Takashima
Permeability of mono-carboxylate ions across an anion-exchange membrane 16(1975)55

Baba Y.

T. Fukuda, T. Fukami, Y. Baba and K. Honma
Clad steel for seawater service 97(1994)121

Backstrom J.E.

J.E. Backstrom and J.T. Dikeou
Polymer concrete: A potential construction material for desalination plants. Part I 9(1971)97

Badertscher L.

D.R. Lee, J.M. Hargreaves, L. Badertscher, L. Rein and F. Kassir
Reverse osmosis and activated alumina water treatment plant for the California State prisons located near Blythe 103(1995)155

Badran M. M. H.

M.G.A. Khedr, M.M.H. Badran and A.A. El Azhari
Pitting corrosion behaviour of aluminium in water desalination plants 72(1989)351

Baduruthamal U.

F.H. Butt, F. Rahman and U. Baduruthamal
Identification of scale deposits through membrane autopsy 101(1995)219

F.H. Butt, F. Rahman and U. Baduruthamal
Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination 103(1995)189

F.H. Butt, F. Rahman and U. Baduruthamal
Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation 109(1997)67

F.H. Butt, F. Rahman and U. Baduruthamal
Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 2: Membrane autopsy 109(1997)83

F.H. Butt, F. Rahman and U. Baduruthamal
Evaluation of SHMP and advanced scale inhibitors for control of CaS04, SrS04, and CaC03 scales in RO desalination 109(1997)323

Baeyens J.

D. Van Gauwbergen, J. Baeyens and C. Creemers
Modeling osmotic pressures for aqueous solutions for 2-1 and 2-2 electrolytes 109(1997)57

D. Van Gauwbergen and J. Baeyens
Macroscopic fluid flow conditions in spiral-wound membrane elements 110(1997)287

Baeza E.

E. Baeza
Desalination activities in Spain (in Spanish) 20(1977)95

Baggott S. R.

S.R. Baggott and A. Jaffer
The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units 83(1991)119

Baglovsky A. V.

O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
Evaluation of thermal desalination plants water chemistry 47(1983)63

Bagwell Jr. T.H.

T.H. Bagwell, Jr. and M.K. Price
The Interagency Consortium for Desalination and Membrane Separation Research 99(1994)195

E.A. Downing, A.J. Coleman and T.H. Bagwell, Jr.
US Army reverse osmosis membrane research programs 99(1994)383

T.H. Bagwell, Jr., B. Shalewitz and A. Coleman
The Army water supply program: An overview 99(1994)409

Bahjernejad M.

J. Cunningham and M. Bahjernejad
The effect of vapour shear and condensate drainage in condenses using roped tubes 45(1983)135

Bahr P.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Bahri A.

A. Bahri
Utilization of treated wastewaters and sewage sludge in agriculture in Tunisia 67(1987)233

Bai J.

A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura
Membrane separation of low volatile organic compounds by pervaporation and vapor permeation 90(1993)209

Bailie R. E.

R.E. Bailie
The reliability assurance survey: An initial step towards increased operating reliability at existing desalination facilities 45(1983)185

R.E. Bailie
A recollection of the prehistory of 'IDEA' 50(1984)15

Bairinji R.

R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura
Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements 46(1983)57

M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura
Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination 96(1994)133

T. Ikeda, H. Muragishi, R. Bairinji and T. Uemura
Advanced reverse osmosis membrane modules for novel ultrapure water production process 98(1994)391

Bajolle J.-E.

J.-E. Bajolle, P.A. Rice and A.J. Barduhn
Vacuum stripping of butane from water in a packed column 9(1971)351

Baker J.S.

J.S. Baker, S.J. Judd and S.A. Parsons
Antiscale magnetic pretreatment of reverse osmosis feedwater 110(1997)151

Baker R. J.

R.J. Baker, A.G. Fane, C.J.D. Fell and B.H. Yoo
Factors affecting flux in crossflow filtration 53(1985)81

Baker R. W.

H. Strathmann, K. Kock, P. Amar and R.W. Baker
The formation mechanism of asymmetric membranes 16(1975)179

Bakheet L. M.

T. K. Osta and L.M. Bakheet, Sr.
Pretreatment system in reverse osmosis plants 63(1987)71

A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
Performance evaluation of SWCC SWRO plants 74(1989)37

Bakish R.

R. Bakish and W. Arthur
An undergraduate program in desalination 23(1977)291

H. Winters, I.R. Isquith and R. Bakish
Influence of desalination effluents on marine ecosystems 30(1979)403

R. Bakish, E. Catanzaro and W. Arthur
Experiences from continuing education training in desalination 30(1979)443

R. Bakish and E. Catanzaro
Outline of a training manual for desalination plant operators 30(1979)461

R. Bakish
The Caribbean, the other area of concentration of desalination plants 39(1981)323

R. Bakish
Education and training in desalination around the world 39(1981)477

Bal A. S.

A.S. Bal and S. Peter
Development of cord membranes: A new reverse osmosis membrane configuration 46(1983)351

A.S. Bal
Cord membrane — A new reverse osmosis membrane configuration 83(1991)301

A.S. Bal, C.G. Malewar and A.N. Vaidya
Development of non-cellulosic membranes for wastewater treatment 83(1991)325

Balaban M.

M. Balaban
Desalination Directory, Second Edition 43(1982)1

M. Balaban
Desalination Directory, Third Edition 57(1986)1

M. Balaban
Editorial — Desalination Volume 100 100(1996)v-xii

M. Balaban
Editor Desalination
International Journal for Water Desalting and Purification
Volumes 1–110 (1966–1997)

Balakin V. M.

O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin
Inhibition efficiency of scale formation by chemical additives 74(1989)355

Balakrishnan T. V.

A.H. Nasrat and T.V. Balakrishnan
Features of desalination plants in semi-arid areas 30(1979)187

Balcerzak W.

J. Kurbiel, W. Balcerzak, S.M. Rybicki and K. Swist
Selection of the best desalination technology for highly saline drainage water from coal mines in southern Poland 106(1996)415

Baldwin W. H.

S.B. Sachs, W.H. Baldwin and J.S. Johnson
Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes 6(1969)215

Balice V.

V. Balice, G. Boari, M. Santori and G. Tiravanti
The electrodialysis — ion exchange demonstration plant at Brindisi 19(1976)447

Ball S. J.

S.J. Ball
Control of two-phase evaporating flows 59(1986)199

Ballew H. W.

H.W. Ballew and M.C. Porter
Selection of microporous membranes for optimum separations 34(1980)3

Balligand P.

P. Balligand
Le programme français dans le domaine du dessalement de l'eau de mer 5 suppl.(1969)25

P. Balligand, J.P. Agostini, J. Huyghe, F. Lauro and P. Vignet
Etude d'usines de dessalement associées à un réacteur nucléaire du type uranium naturel-gaz-graphite et fonctionnant suivant différents procédés de distillation 5 suppl.(1969)425

P. Balligand
French nuclear desalting programme (in French) 6(1969)287

P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger
Greenhouses with solar desalination (in French) 31(1979)429

Banat F.A.

F.A. Banat and J. Simandl
Theoretical and experimental study in membrane distillation 95(1994)39

Band M.

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Bandel E.

A. Süszer, E. Bandel and M. Flitman
Preparation and laboratory evaluation of cellulose-based ion permselective membranes 7(1969)47

Bandini S.

S. Bandini, C. Gostoli and G.C. Sarti
Role of heat and mass transfer in membrane distillation process 81(1991)91

Bankovska I.

M. Iovchev and I. Bankovska
Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with some reducing agents at various temperatures 42(1982)221

Banks H.

H. Banks
Water resource institutions and policies in arid regions 72(1989)217

Banks R.

E. Fredkin and R. Banks
Computerized instrumentation and control for reverse osmosis systems 75(1989)141

Bannoud A.

A. Bannoud
The electrochemical way of removing the hardness of water 93(1993)545

Banta M.C.

R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey
Rapid batch and continuous electroanalysis for the chloride ion 9(1971)333

Bao ShiYao

Ling Al-Lian, Zheng Yong-Zhuang, Bao Shi-Yao and Fan Song-Chun
An acrylonitrile copolymer material for membrane manufacture. III. Manufacture of a co-mixed UF membrane of AN-MMA binary copolymer and polyvinyl chloride 86(1992)291

Bao Zhiguo

Gao Congjie, Lu Xueren and Bao Zhiguo
Polysulfone amide (PSA) asymmetric reverse osmosis membrane 83(1991)271

Bapeshwara Rao V. S. V.

G.N. Tiwari and V.S.V. Bapeshwara Rao
Transient performance of a single basin solar still with water flowing over the glass cover 49(1984)231

Barabash P. A.

V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash
Heat transfer in film-type evaporator with profiled tubes 74(1989)363

V.G. Rifert, P.A. Barabash, N.N. Goliayd and E.B. Kurilova
Stand-alone thermal desalination plants 96(1994)183

Barak A. Z.

M. Pachter and A. Barak
Vacuum freezing vapor compression (Zarchin) process. Present status and future trends 2(1967)358

A.Z. Barak and W.L. Barnes
The design, construction, testing and operation of a large scale prototype desalting plant in Israel 20(1977)163

A.Z. Barak, L. Awerbuch and R.H. Horowitz
The Joint United States/Israel desalination project: Progress report 23(1977)553

Barakzai A. S.

D.M.K. Al-Gobaisi, A.S. Barakzai and A.M El-Nashar
An overview of modern control strategies for optimizing thermal desalination plants 84(1991)3

D.M.K. Al-Gobaisi, A.S. Barakzai, M.A. Aziz and A. Hassan
Manageable automation systems for power and desalination plants 92(1993)211

Baranov Ju. S.

J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
Operating experience of desalination units in Schevchenko 45(1983)167

N.M. Sinev, V.G. Shatsillo, V.B. Chernozobov, A.A. Samarkin and J.S. Baranov
Investigation of water desalination by distillation technique 45(1983)315

Barba D.

D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri
Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants 19(1976)15

D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti
Qatar desalination plants 26(1978)109

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Design and operation of 2 x 2.5 mgd Bahrain desalination plants 26(1978)117

D. Barba, A. Germana and G. Tagliaferri
Analysis of very large MSF desalination units 30(1979)553

D. Barba
Engineering and process experience deriving from various solutions in designing MSF evaporators (abstract) 31(1979)171

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Analysis of large desalination plants 33(1980)1-10, Err. 30(1979)553

D. Barba
Engineering and process experience deriving from various solutions in the design of MSF evaporators 33(1980)11

D. Barba, V. Brandani, G. Di Giacomo and P.U. Foscolo
Magnesium oxide production from concentrated brines 33(1980)241

D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
High temperature distillation process with sea water feed decalcification pretreatment 40(1982)347

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 44(1983)29

D. Barba, V. Brandani and P.U. Foscolo
A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening 48(1983)133

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 49(1984)1

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 49(1984)1

D. Barba and R. Di Felice
Heat transfer in turbulent flow on a horizontal tube falling film evaporator. A theoretical approach 51(1984)325

D. Barba, V. Brandani and G. di Giacomo
CaS04 scale conditions of membranes predicted by a multi-ion thermodynamic model 54(1985)227

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature 65(1987)101

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Activity coefficients in aqueous multicomponent electrolyte solutions from ambient to 200°C 65(1987)113

D. Barba, F. Evangelista, G. Jonsson and L. Marrelli
An analytical method for design of electrodialysis stacks operated at high concentrations 71(1989)137

D. Barba, F. Evangelista and L. Marrelli
A general thermodynamic tool for predicting salting coefficients of non-electrolytes in brackish or seawater 71(1989)289

Barcicki J.

L. Pawlowski, J. Barcicki and T.Z. Winnicki
Chemical and physical degradation of some cation-exchange resins used in nitrate recovery from wastewaters 28(1979)243

Bardonnet C.

C. Bardonnet, R. Brun and M. Pages
A new support for semi-permeable membranes 21(1977)203

Barduhn A. J.

W.W. Carey, N.A. Klausutis and A.J. Barduhn
Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions 1(1966)342

R. Fernandez and A.J. Barduhn
Growth rate of ice crystals 3(1967)330

A.J. Barduhn
The state of the crystallization processes for desalting saline waters 5(1968)173

O.S. Rouher and A.J. Barduhn
Hydrates of iso- and normal butane and their mixtures 6(1969)57

J.B. Pangborn and A.J. Barduhn
The kinetics of methyl bromide hydrate formation 8(1970)35

J.-E. Bajolle, P.A. Rice and A.J. Barduhn
Vacuum stripping of butane from water in a packed column 9(1971)351

S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis 11(1972)31

A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn
The properties of the hydrates of chlorine and carbon dioxide 16(1975)303

A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern
The rate of formation of the hydrates of F-31 (CH2CIF) and F-142b (CH3CCIF2) in a stirred tank reactor 18(1976)59

A.J. Barduhn and W.-C. Lee
Thermodynamic properties of F-22(CHCIF2) hydrate for use in desalting 25(1978)151

R.T. Kurnik and A.J. Barduhn
Thermodynamic properties of normal butane at refrigeration temperatures 26(1978)211

A.J. Barduhn and A. Manudhane
Temperatures required for eutectic freezing of natural waters 28(1979)233

A.J. Barduhn and J.S. Huang
Why does ice grow faster from salt water than from fresh water? 67(1987)99

Bargeman D.

A.M. Neplenbroek, D. Bargeman and C.A. Smolders
The stability of supported liquid membranes 79(1990)303

Barger M.

M. Barger and R.P. Carnahan
Fouling prediction in reverse osmosis processes 83(1991)3

Barinov V. F.

V.V. Barinov, V.L. Podbereznji, I.D. Mogilner and V.F. Barinov
The use of a qualitative method of control for some process parameters of distillation desalting plants 88(1992)179

Barinov V. V.

V.V. Barinov, V.L. Podbereznji, I.D. Mogilner and V.F. Barinov
The use of a qualitative method of control for some process parameters of distillation desalting plants 88(1992)179

Bariou B.

I. Boulanouar, S. Nicolas and B. Bariou
Ultrafiltration and reverse osmosis in unstirred batch cell of charged solutes (protein, salts) with total retention 104(1996)83

Barnes W. L.

A.Z. Barak and W.L. Barnes
The design, construction, testing and operation of a large scale prototype desalting plant in Israel 20(1977)163

Barois G.

J. Huyghe, G. Barois, A. Michel and H. Mondin
Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel (in French) 4(1968)209

Barrada Y.

Y. Barrada
Desalted water and the possibility of its use in agriculture 5 suppl.(1969)659

Barthakur N. N.

N.N. Barthakur
Electrostatically enhanced evaporation rates of saline water 74(1989)339

N.N. Barthakur
Electrohydrodynamic enhancement of evaporation from NaCl solutions 78(1990)455

Barton A.

I.D. McGregor and A. Barton
Factors affecting the useful economic life of large MSF distillers 93(1993)387

Bartz R.

R. Bartz
Pretreatment of seawater for the reverse osmosis type desalination process 47(1983)189

Baruch G.

M.G. Katz and G. Baruch
New insights into the structure of microporous membranes obtained using a new pore size evaluation method 58(1986)199

Basile A.

S.N. Gaeta, H. Zhang, E. Drioli and A. Basile
Polyorganophosphazene membranes: Preparation and transport properties 80(1991)181

Basini L.

L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
A desalination process through sweeping gas membrane distillation 64(1987)245

Basu S.

K. Radhamohan and S. Basu
Electrodialysis in the regeneration of paper mill spent liquor 33(1980)185

B. Chakravorty, R.N. Mukherjee and S. Basu
Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents 46(1983)353

S. Basu and S. Moulik
Studies on the application of RO in treatment of rayon plant effluent 47(1983)335

S. Basu and V.S. Sapkal
Membrane technique in simplification of soda recovery process in pulp and paper industry 67(1987)371

Bates C.

C. Bates, R.P. Gladwin and L. McGrath
Desalination in pilot scale column crystallizers 21(1977)83

G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath
Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions 36(1981)87

Battaerd H.A.J.

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

Baudin I.

I. Baudin, M. Millequant, A. Ricard and R. Audebert
Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment 86(1992)237

Bauer B.

B. Bauer, F.J. Gerner and H. Strathmann
Development of bipolar membranes 68(1988)279

B. Bauer, H. Strathmann and F. Effenberger
Anion-exchange membranes with improved alkaline stability 79(1990)125

H. Strathmann, H.-J. Rapp, B. Bauer and C.M. Bell
Theoretical and practical aspects of preparing bipolar membranes 90(1993)303

Bauer O.

W. Schneider and O. Bauer
Laboratory experiments with hyperfiltration membranes 34(1980)11

Bauer S.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Baumgartner T.

T. Baumgartner, D. Jung and R. Sizmann
Open multiple effect desalination with low temperature process heat 81(1991)299

Bauser H.

R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel
Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins 79(1990)217

Bawarith W.

A.M. Al-Taweel, A. Bushnak and W. Bawarith
Desalination and the reuse of agricultural drainage waters in Saudi Arabia 32(1980)341

Baxter A.

H.C. Simpson, G.C. Beggs, J. Nakamura and A. Baxter
The C-axis growth rate of ice crystals 18(1976)219

Bayer E.

E. Bayer and H. Strathmann
Second Tübinger Symposium on synthetic membranes in science and industry 34(1980)1

Bayle S.

L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani
Electrokinetic characterization of polyethersulfone UF membranes 109(1997)253

Beamer J. H.

J.H. Beamer and D.J. Wilde
The simulation and optimization of single effect multi-stage flash desalination plant 9(1971)259

Beardsley S.

A. Muirhead, S. Beardsley and J. Aboudiwan
Performance of the 12,000 m3/d seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia, January 1979 through January 1981 42(1982)115

Beasley J. K.

J.K. Beasley
The evaluation and selection of polymeric materials for reverse osmosis membranes 22(1977)181

K.K. Likhyani and J.K. Beasley
Performance of a ceramic ultrafilter with sea water 22(1977)345

J.K. Beasley
The future of reverse osmosis in water desalination 30(1979)69

J.K. Beasley and R.E. Penn
Hollow fine fiber vs. flat sheet membranes: A comparison of structures and performance 38(1981)361

Beccari M.

M. Beccari, A.C. di Pinto and L. Spinosa
Liquid film distributors for vertical tube evaporation desalination plants 29(1979)295

M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa
Pilot and full-scale research on the vapour compression desalination process 37(1981)257

Beck A.

A. Beck and M. Schaal
Water requirements of an inland nuclear power station. Engineering and economic aspects 40(1982)19

Beckman J.

R. Larson, W. Albers, J. Beckman and S. Freeman
The carrier-gas process — a new desalination and concentration technology 73(1989)119

Bedrose S.D.

N.H. Aly and S.D. Bedrose
Enhanced film condensation of steam on spirally fluted tubes 101(1995)295

Beggs G.C.

H.C. Simpson, G.C. Beggs, J. Deans and J. Nakamura
Growth of ice crystals 14(1974)341

H.C. Simpson, G.C. Beggs and M. Nazir
Evaporation of butane drops in brine 15(1974)11

H.C. Simpson, G.C. Beggs, J. Nakamura and A. Baxter
The C-axis growth rate of ice crystals 18(1976)219

Begum S.

S. Imam and S. Begum
The Yathrib system 96(1994)119

Behling R. -D.

D. Fritsch, K.-V. Peinemann and R.-D. Behling
Silicon/non-silicone grafted blend composite membranes for air/vapor separation 90(1993)235

Bejarano T.

T. Bejarano, C. Forgacs and J. Rabinowitz
Further developments in the high temperature electrodialysis 3(1967)129

E.A.J. Mroz
Scale prevention via quench dilution 3(1967)135

Belessiotis V.

E.-E. Delyannis and V. Belessiotis
Solar application in desalination: The Greek Islands experiment 100(1995)27

V. Belessiotis, K. Voropoulos and E. Delyannis
Experimental and theoretical method for the determination of the daily output of a solar still: input-output method 100(1995)99

V. Belessiotis and E. Delyannis
Solar energy: Some proposals for future development and application to desalination 105(1996)151

K. Voropoulos, E. Delyannis and V. Belessiotis
Thermo-hydraulic simulation of a solar distillation system under pseudo steady-state conditions 107(1996)45

Belfer S.

E. Korngold, S. Belfer and C. Urtizberea
Removal of heavy metals from tap water by a cation exchanger 104(1996)197

Belfort G.

G. Belfort and G.A. Guter
An electrical analogue for electrodialysis 5(1968)267

G. Belfort and J.A. Daly
Optimization of an electrodialysis plant 8(1970)153

G. Belfort and G.A. Guter
An experimental study of electrodialysis hydrodynamics 10(1972)221

F.E. Littman, H.K. Bishop and G. Belfort
A new concept in reverse osmosis design 11(1972)17

G. Belfort and J. Scherfig
Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion 18(1976)43

G. Belfort
A molecular friction model for transport of uncharged solutes in neutral hyperfiltration and ultrafiltration membranes containing bound water 18(1976)259

G. Belfort, G. Alexandrowicz and B. Marx
Artificial particulate fouling of hyperfiltration membranes 19(1976)127

G. Belfort
Pretreatment and cleaning of hyperfiltration (reverse osmosis) membranes in municipal wastewater renovation 21(1977)285

D. Mahlab, N. Ben Yosef and G. Belfort
Concentration polarization profile for dissolved species in unstirred batch hyperfiltration (reverse osmosis). II. Transient case 24(1978)297

G. Belfort and B. Marx
Artificial particulate fouling of hyperfiltration membranes. II. Analysis and protection from fouling 28(1979)13

G. Belfort
Artificial particulate fouling of hyperfiltration membranes IV. Dynamic protection from fouling 34(1980)159

G. Green and G. Belfort
Fouling of ultrafiltration membranes: lateral migration and the particle trajectory model 35(1980)129

G. Belfort and W. Altena
Towards an inductive understanding of membrane fouling 47(1983)105

F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
Particle motion in a laminar slit flow: a fundamental fouling study 47(1983)221

G. Belfort and N. Nagata
Fluid mechanics and cross-flow filtration: Some thoughts 53(1985)57

Bell C. -M.

H. Strathmann, C.-M. Bell and J. Kerres
Gas separation and pervaporation: Membrane and module development 77(1990)259

H. Strathmann, H.-J. Rapp, B. Bauer and C.M. Bell
Theoretical and practical aspects of preparing bipolar membranes 90(1993)303

Bell R.W.

Qixing Zhou, Limei Dai and R.W. Bell
An integrated plan for town-enterprise wastewater reuse and wetland strategy: A case study 106(1996)439

Bellobono I. R.

B. Marcandalli, E. Selli, R. Tacchi, I.R. Bellobono and G. Leidi
A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients 51(1984)113

Bellucci F.

F. Bellucci, E. Drioli and A. Pozzi
Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results 16(1975)287

E. Drioli and F. Bellucci
Concentration polarization and solute—membrane interactions affecting pressure driven membrane processes 26(1978)17

F. Bellucci and N. Esposito
Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions 28(1979)181

Beltramini A.

M. Rosso, A. Beltramini, M. Mazzotti, and M. Morbidelli
Modeling multistage flash desalination plants 108(1996)365

Belyshev M. A.

O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin
Inhibition efficiency of scale formation by chemical additives 74(1989)355

Bemporad G.A.

M. Reali and G.A. Bemporad
Energy-efficient schemes for seawater desalination 105(1996)171

Ben Aim R.

C. Visvanathan, R. Ben Aim and S. Vigneswaran
Application of cross-flow electro-microfiltration in chromium wastewater treatment 71(1989)265

Ben Boudinar M.

S. Avlonitis, W.T. Hanbury qand M. Ben Boudinar
Spiral wound modules performance. An analytical solution. Part I 81(1991)191

M. Ben Boudinar, W.T. Hanbury and S. Avlonitis
Numerical simulation and optimisation of spiral-wound modules 86(1992)273

S. Avlonitis, W.T. Hanbury and M. Ben Boudinar
Spiral wound modules performance. An analytical solution: Part II 89(1993)227

Ben Meir M.

M. Ben Meir
Water resources of Israel and the need for desalination 40(1982)15

Ben Yosef N.

D. Mahlab, N. Ben Yosef and G. Belfort
Concentration polarization profile for dissolved species in unstirred batch hyperfiltration (reverse osmosis). II. Transient case 24(1978)297

Ben-Yair M.

M. Ben-Yair
Durability of cement and concrete in sea water 3(1967)147

Bender H.

H. Bender, M. Hobler, H. Klinge and K. Schelkes
Investigations of groundwater resources in Central Jordan 72(1989)161

Bengtson G.

K.W. Böddeker, G. Bengtson, H. Pingel and S. Dozel
Pervaporation of high boilers using heated membranes 90(1993)249

Bennett L. H.

L.H. Bennett and L.J. Swartzendruber
Some comments on "The corrosion of materials in desalination plants" 4(1968)389-390, Err. 4(1968)391-392

L.J. Swartzendruber and L.H. Bennett
Use of ultrasonics in laboratory development tests of cupro-nickel alloys for desalination 9(1971)387

Benson R. E.

R.E. Benson and I. Moch
Reactivating after 11 years a 3 mgd seawater RO plant in Florida 102(1995)209

Berger R.

P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger
Greenhouses with solar desalination (in French) 31(1979)429

Bergman R. A.

W.T. Andrews, J.H. Sleigh and R.A. Bergman
The Malta seawater reverse osmosis facility 46(1983)111

R.A. Bergman, H.W. Harlow and P.E. Laverty
Resolution of RO flux decline problems at Englewood, Florida 54(1985)55

W.T. Andrews and R.A. Bergman
The Malta seawater RO facility 60(1986)135

R.A. Bergman
Membrane softening versus lime softening in Florida: A cost comparison update 102(1995)11

Bergmann F.

F. Bergmann and B. Schuette
The integration of a reverse osmosis installation in the fully automated operation of a rural water supply company 49(1984)203

Berlyne G.M.

G.M. Berlyne and M. Morag
Metabolic effects of drinking brackish water 10(1972)215

G.M. Berlyne and R. Yagil
Chemical drinking water standards, an example of guesswork? 13(1973)217

Bernard A.

A. Bernard and R. Lacroix
Concrete structures for desalination plants (in French) 29(1979)331

A. Bernard, R. Lacroix and M. Izabel
Concrete structure for desalination plants (in French) 31(1979)385

Bernard J. C.

J.C. Bernard and E. Demolins
Scale control additive — Practical experiences in multistage flash plants 54(1985)301

Berry S. E.

S.E. Berry and M.H. Nguyen
High rate ultrafiltration of soymilk 70(1988)169

Bertolutti C.

A. Cassano, E. Drioli, R. Molinari and C. Bertolutti
Quality improvement of recycled chromium in the tanning operation by membrane processes 108(1996)193

Bertoni G.

A. Saavedra, G. Bertoni, D. Fajner and G.C. Sarti
Reverse osmosis treatment of process water streams 82(1991)267

Bertuzzi M.

M. Bertuzzi, G. D'Angelo and E. Moretti
Experience with 4 x 5 Migd MSF plant in Qatar: Report on construction material performances 45(1983)175

M. Bertuzzi, M. Polla and P. Tiraboschi
Developments in vertical tube evaporation 52(1985)135

Bessler M. B.

G.G. Stamm and M.B. Bessler
Future role of desalting for water quality improvement — Colorado River Basin, USA 20(1977)1

Bettinger G. E.

G.E. Bettinger
Controlling biological activity in a surface water reverse osmosis plant 38(1981)419

Bezuidenhout D.

R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen
Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes 90(1993)15

E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate 94(1993)115

Bharadwaj J.

J. Bharadwaj and V.R. Raghavan
Influence of noncondensables on modern thermal desalination 49(1984)357

Bhattacharyya D.

M.-J. Han and D. Bhattacharyya
Thermal annealing effect on cellulose acetate reverse osmosis membrane structure 101(1995)195

Bhayani V. B.

W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan
Desalination of brackish water by electrodialysis 42(1982)97

Bianchi G.P.

A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi
ENEL experience of seawater desalination plants 108(1996)345

Bierman G.

J.P. Brouwer, M.M.C. Alkemade and G. Bierman
Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream 101(1995)211

Bikos S. C.

S.C. Bikos and J.R. Flower
Preliminary design and energy analysis of evaporative desalination cascades 81(1991)483

Bikson B.

B. Bikson, J. Jagur-Grodzinski and D. Vofsi
Morphology of polyethylene-based ion exchange membranes 24(1978)95

Bilidt H.

H. Bilidt
The use of reverse osmosis for removal of nitrate in drinking water 53(1985)225

Bindoff A.

C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen
The use of speciation and X-ray techniques for determining pretreatment steps for desalination 66(1987)327

K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
The cross-flow microfiltration of problematic surface and river waters to produce potable water 67(1987)439

A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley
The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping 67(1987)455

Bingley E.B.

E.B. Bingley
Greywater reuse proposal in relation to the Palmyra project 106(1996)371

Bingulac S.

H. El-Dessouky and S. Bingulac
Solving equations simulating the steady-state behavior of the multi-stage flash desalination process 107(1996)171

Binot R. A.

R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot
The proposal for the completely closed system in the Columbus Space Station 83(1991)123

Biondi L.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

L. Biondi, D. Panzeri and L. Pierazzi
Le reacteur ROVI: choix de l'élément combustible et problèmes connexes 5 suppl.(1969)311

Birch R. P.

R.P. Birch, M. Al-Arrayedh and B. Hallmans
Bahrain's fresh groundwater situation and the investigations into using Bahrain's brackish water resources as a feedwater for the reverse osmosis desalination programme 55(1985)397

Birkett J. D.

E.H. Newton and J.D. Birkett
Summary report on survey of materials behavior in multistage flash distillation plants 6(1969)229

J.D. Birkett and E.H. Newton
Present trends in materials selection and performance in multi-stage flash desalination units 38(1981)207

J.D. Birkett
Trends in design and performance of commercially available reverse osmosis modules 46(1983)91

J.D. Birkett
A brief illustrated history of desalination 50(1984)17

Bishop H. K.

H.K. Bishop, J.A. Bittles and G.A. Guter
Investigation of inorganic ion exchange membranes for electrodialysis 6(1969)369

F.E. Littman, H.K. Bishop and G. Belfort
A new concept in reverse osmosis design 11(1972)17

Bisson R.A.

R.A. Bisson
Space-age integrated exploration and treatment of renewable regional sources of pristine groundwater in fractured rock "megawatersheds" 99(1994)257

Bitter J. G. A.

J.G.A. Bitter
Effect of crystallinity and swelling on the permeability and selectivity of polymer membranes 51(1984)19

Bittles J. A.

H.K. Bishop, J.A. Bittles and G.A. Guter
Investigation of inorganic ion exchange membranes for electrodialysis 6(1969)369

Biware M.V.

M.V. Biware and N.D. Ghatge
Studies in piperazine containing poly(sulphone-amide)s for use in water desalination 101(1995)93

Bjerke B.

B. Bjerke
Membrane technology and costs; state of the art 35(1980)375

Black D. W.

D.W. Black and R.M. Morris
Experience in commissioning large desalination plants in the Middle East 39(1981)229

Blackson D.

D. Blackson, B.W. Reyes, J.W. Kluesener and E.H. Houle
Water reclamation for power plant cooling 56(1985)175

Blake T. R.

T.R. Blake and G. Willocks
Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant 39(1981)311

Blanc-Feraud P.

P. Blanc-Feraud
Seawater desalination: A low energy consuming solution: vapor compression (in French) 30(1979)469

Blanco J.

P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato
Wastewater detoxification of organic and inorganic toxic compounds with solar collectors 108(1996)213

Blandon F. A.

W.J. Conlon, F.A. Blandon and J. Moody
Cost comparison of treatment alternatives for the removal of nitrates and DBCP from Southern California groundwater 103(1995)89

Blank H.G.

H.G. Blank and G. Jackson
AID's strategy for water resource management in the Middle East 99(1994)233

Blazejewska-Wisniewska G.

T. Winnicki, G. Blazejewska and A. Mika-Gibala
Piezodialytic transport across charge-mosaic membranes 32(1980)77

G. Blazejewska-Wisniewska and T. Winnicki
Piezodialytic transport across charge-mosaic membranes 38(1981)461

Bleha M.

M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
Characteristic of the critical state of membranes in ED-desalination of milk whey 86(1992)173

Blesing N.V.

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

Blevitt R.

R. Blevitt and J.L. Hooper
Design and operation of a 5000 m3/d reverse osmosis dual product plant 20(1977)119

Bloch M. R.

S. Loeb and M.R. Bloch
Countercurrent flow osmotic processes for the production of solutions having a high osmotic pressure 13(1973)207

Bloch R.

G. Thau, R. Bloch and O. Kedem
Water transport in porous and non-porous membranes 1(1966)129-138, Err. 1(1966)296-

R. Bloch and M.A. Frommer
The mechanism for formation of "skinned" membranes. I. Structure and properties of membranes cast from binary solutions 7(1970)259

M.A. Frommer, I. Feiner, O. Kedem and R. Bloch
The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure 7(1970)393

Blöcher D.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Block J.

J. Block, B.M. Watson, L.A. Burkholder and B. Albano
Effect of iron and copper during scale suppression by threshold compounds 15(1974)279

J. Block and B.M. Watson
Magnesium scales from seawater distillation 19(1976)359

Bloebaum R.K.

J.W. Van Heuven and R.K. Bloebaum
Reverse osmosis by dynamically formed cation exchanger membranes 14(1974)229

Bloetscher F.

T.M. Missimer, C.W. Walker and F. Bloetscher
Use of aquifer storage and recovery technology to improve membrane water treatment plant efficiency, Collier County, Florida 87(1992)269

Bo P.

P. Bo and V. Stannett
On the salt rejection of non-ionic polymeric membranes 18(1976)113

Boari G.

G. Boari, C. Merli, R. Passino and G. Tiravanti
Silica transport through charged membranes 15(1974)3

G. Boari, L. Liberti, C. Merli and R. Passino
Exchange equilibria on anion resins 15(1974)145

A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli
Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants 16(1975)135

G. Boari, C. Merli, G. Mossa and R. Passino
Study of the morphology and determination of the transport coefficients for reverse osmosis membranes 16(1975)271

G. Boari, L. Liberti, M. Santori and L. Spinosa
Advanced evaporation plants with sulfate removal by ion exchange 19(1976)283

V. Balice, G. Boari, M. Santori and G. Tiravanti
The electrodialysis — ion exchange demonstration plant at Brindisi 19(1976)447

R. Passino, G. Boari, A. Rozzi and G. Tiravanti
Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCI solutions and analysis of boundary layer overpotentials 24(1978)55

G. Boari, C. Carrieri, P. Mappelli and M. Santori
Reverse osmosis pilot plants performance in brackish water desalination 24(1978)341

L. Liberti, G. Boari and R. Passino
Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates 25(1978)123

L. Liberti, G. Boari and R. Passino
Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges 26(1978)181

A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
Results of four years of operation at high temperature (150°C) of Bari's desalination plant 45(1983)197

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

R. Zannoni, F. Fantini, M. Haruni, T. Abu Ihweig and G. Boari
Reverse osmosis desulphation pretreatment: new prototype application 54(1985)333

L. Liberti, R. Passino, M. Santori and G. Boari
Technical and economic trends of sea water desalting in the '90s 55(1985)503

R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari
Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station 66(1987)431

G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar 66(1987)443

R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant 82(1991)337

Böddeker K. W.

K.W. Böddeker, W. Hilgendorff and J. Kaschemekat
Reverse osmosis sea water test facility on board NS Otto Hahn 18(1976)307

K.W. Böddeker, W. Hilgendorff and J. Kaschemekat
An alternative design concept in reverse osmosis desalination 20(1977)155

J. Kaschemekat and K.W. Böddeker
Parametric study of cost factors in RO desalination (GKSS plate system) 36(1981)75

J. Kaschemekat, W. Hilgendorff, K.W. Böddeker, A.M. Hassan and A.L.A. Malik
Two-stage reverse osmosis seawater desalination 46(1983)151

K.W. Böddeker, G. Bengtson, H. Pingel and S. Dozel
Pervaporation of high boilers using heated membranes 90(1993)249

Bodzek M.

K. Konieczny and M. Bodzek
Ultrafiltration of demineralized water containing colloidal silica 79(1990)145

M. Bodzek and K. Konieczny
Polyacrylonitrile and polyvinyl chloride ultrafiltration membranes in the treatment of anaphoretic emulsion paint 80(1991)43

M. Bodzek and K. Konieczny
Characterization of gel layer formed during ultrafiltration of latex emulsion waste waters 94(1993)81

M. Bodzek and K. Konieczny
Modelling of the ultrafiltration of electrophoretic emulsion paint 94(1994)261

M. Bodzek and K. Konieczny
Optimization of the ultrafiltration of latex wastewaters 94(1994)289

K. Konieczny and M. Bodzek
Ultrafiltration of latex wastewaters 104(1996)75

M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny
Biomembrane wastewater treatment by activated sludge method 107(1996)83

Boegli W. J.

W.J. Boegli, S.H. Suemoto and K.M. Trompeter
Geothermal desalting at the East Mesa test site 22(1977)77

Boegly W.J.

W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr.
Effect of brine disposal cost on hyperfiltration plant optimization 11(1972)91

Boehmer H.

H. Boehmer and F.J. Glaze
Better MSF plant performance by avoiding tube fouling and debris 55(1985)429

H. Boehmer and F.J. Glaze
Debris separators and filters for different desalination systems 55(1985)559

Boesch W. W.

W.W. Boesch
Building and commissioning the 3.0 Mgd seawater RO plant for Key West, Florida 38(1981)485

W.W. Boesch
World's first solar powered reverse osmosis desalination plant 41(1982)233

Boesen C.E.

L. Kiørboe, C.E. Boesen and G. Jonsson
A method for the determination of the optimal reverse osmosis membrane for two-solute separation 12(1973)35

G. Jonsson and C.E. Boesen
Water and solute transport through cellulose acetate reverse osmosis membranes 17(1975)145

G. Jonsson and C.E. Boesen
Concentration polarization in a reverse osmosis test cell 21(1977)1

G. Jonsson and C.E. Boesen
The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes 24(1978)17

Bogazzi D.

D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri
Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants 19(1976)15

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Design and operation of 2 x 2.5 mgd Bahrain desalination plants 26(1978)117

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Analysis of large desalination plants 33(1980)1-10, Err. 30(1979)553

Bogliolo M.

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

Boglovsky A. V.

O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert
Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations 71(1989)337

O.I. Martynova, L.G. Vasina, A.V. Boglovsky and O.V. Gyseva
Alkaline scale formation restriction in desalination plants by means of antiscalant additives 83(1991)55

L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev
Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold 105(1996)159

Bohlmann E. G.

F.A. Posey and E.G. Bohlmann
Pitting of titanium alloys in saline waters 3(1967)269

Bohman H.

J. Murkes and H. Bohman
Mathematical modelling of reverse osmosis and ultrafiltration processes 11(1972)269

Böhmer H.

H. Böhmer
On-load tube cleaning systems and debris filters for avoidance of micro- and macrofouling in MSF desalination plants 93(1993)171

Böhner A.

A. Böhner
Solar desalination with a high efficiency multi effect process offers new facilities 73(1989)197

Boies D. B.

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Inorganic ion-exchange membranes and their application to electrodialysis 1(1966)231

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Electrodialytic demineralization of brackish waters by using inorganic ion-exchange membranes 5(1968)371

Boisde G.

G. Boisde, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Etude du comportement de divers matériaux dans l'eau de mer jusqu'à 150°C 5 suppl.(1969)895

Bokhorst H.

H. Bokhorst, F.W. Altena and C.A. Smolders
Formation of asymmetric cellulose acetate membranes 38(1981)349

Bolin L.

R.P. Carnahan, L. Bolin and W. Suratt
Biofouing of PVD-1 reverse osmosis elements in the water treatment plant of the City of Dunedin, Florida 102(1995)235

Bolognini A.

A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci
Desalination plant of 3.8 mgpd at Gela (Sicily) 19(1976)317

Bolotov A. A.

L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova
Investigation of water steam drop condensation conditions 2(1967)337

Bolto B.A.

B.A. Bolto and R.E. Warner
An ion-exchange process with thermal regeneration. VII. The rates of neutralization of weak electrolyte resins 8(1970)21

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis
An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin 13(1973)269

P.M. Sharples and B.A. Bolto
Desalting in Australia: The development of a new process for brackish water 20(1977)391

B.A. Bolto and A.S. MacPherson
An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins 21(1977)71

B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak
An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents 25(1978)45

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities 34(1980)171

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins 42(1982)273

B.A. Bolto
The development of desalination in Australia 50(1984)103

B.A. Bolto
Magnetic particle technology: Desalination and water reuse applications 106(1996)137

Bom C.A.

D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw
The use of reverse osmosis for the treatment of Rhine river water. Part I 14(1974)163

D. Kuiper, J.L. Van Hezel and C.A. Bom
The use of reverse osmosis for the treatment of river Rhine water. Part II 15(1974)193

Bom P. R.

P.R. Bom
Large-scale seawater desalination in the Netherlands 5(1968)75

J. Stewart, R. Bom and M.A. Finan
The use of acid and additive. Practical experiences in a multistage flash plant 31(1979)299

B.A. Crul and P.R. Bom
New aspects in solar powered seawater distillation 55(1985)55

Bonacini A.

R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant 82(1991)337

R. Zannoni, A. Bonacini, M. Musatti and I. Resini
Limestone hardening system for Brindisi's power station: First limestone recarbonation unit installed in Italy for industrial water production 82(1991)351

Bonekamp B. C.

R.A. Terpstra, B.C. Bonekamp and H.J. Veringa
Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes 70(1988)395

Bonet J.

J.F. Henriquez, J. Bonet and J. Etxaniz
Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m3/day RO plant 82(1991)71

Bonev B.

I. Dobrevsky, V. Mavrov and B. Bonev
Effect of recovery on desalination of the Black Sea water by reverse osmosis 41(1982)209

I. Dobrevsky, V. Mavrov and B. Bonev
Reverse osmosis as a step for make-up demineralised water for power stations 46(1983)157

V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev
Condensate re-use by ultrafiltration oil removal 83(1991)195

V. Mavrov, I. Dobrevsky, B. Bonev and N. Petkov
Effect of magnesium hydroxide (or hydrated MgO) formed under alkaline conditions on brackish water pretreatment for reverve osmosis 85(1992)335

Bongard W.

P. Maldague, C. Descamps, W. Debay, A. Paquet, W. Bongard and B. Cox
Production combinée d'électricité et d'eau dessalée a l'aide de réacteurs Vulcain et d'unités LTV: Aspects technico-économiques d'installations de moyenne puissance 5 suppl.(1969)463

W. Bongard
A distillation process without energy consumption (in French) 30(1979)583

Bonnin A.

A. Bonnin and F. Linnhoff
Industrial applications of the aqualyzer electrodialysis process using fine thickness cells 68(1988)265

Boonthanon S.

S. Vigneswaran, S. Boonthanon and H. Prasanthi
Filter backwash water recycling using crossflow microfiltration 106(1996)31

Bora M.

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Pilot plant study of desalination by direct contact heat transfer 13(1973)221

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Heat transfer to an immiscible liquid mixture and between liquids in direct contact 13(1973)231

Borden J.

J. Borden, J. Gilron and D. Hasson
Analysis of RO flux decline due to membrane surface blockage 66(1987)257

M. Brusilovsky, J. Borden and D. Hasson
Flux decline due to gypsum precipitation on RO membranes 86(1992)187

Borisov A. V.

N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov
The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions 46(1983)197

Borisov S.A.

Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
Experimental investigation of the dryout at low mass velocities and pressures 108(1996)375

Borodkin A. G.

N.S. Orlov, I.K. Kuznetsova and A.G. Borodkin
Comparison of different channel constructions and their efficiency in membrane cells 84(1991)223

Borsani R.

S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini
Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant 38(1981)185

S. Arazzini, R. Borsani, G. Migliorini and U. Zuboli
Economics of MSF plants: Influence of variations in the design parameters and use of different construction materials 52(1985)97

P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
Using a homogeneous model in simulation of sea water desalination condenser 65(1987)123

C. Sommariva, R. Borsani and A. Tasca
Distillate purity from MSF: The theoretical design and a real case behaviour 81(1991)309

R. Borsani, P. Bozzini, A. Germanà, P. Peluffo and A. Al Radif
12 migd multistage flash desalination plant. A challenge for the next years 96(1994)325

A. Al-Radif, R. Borsani and H. Sultan
Selection of materials for Taweelah "B" MSF desalination plant project (6x10-12.7 migd) 97(1994)3

C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl
Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material 97(1994)53

D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani
Towards improved automation for desalination processes. Part I: Advanced control 97(1994)469

G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz
Towards improved automation for desalination processes. Part II: Intelligent control 97(1994)507

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan
Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B 108(1996)37

R. Borsani, M. Fazio and B. Ferrando
Industrial water production by utilization of a reverse osmosis and an evaporation plant 108(1996)231

R. Borsani and B. Ferrando
Ultrafiltration plant for olive vegetation waters by polymeric membrane batteries 108(1996)281

Borsteins G.

D.C. Nerell, J.A. Statton and G. Borsteins
Baja California desalination project. Feasibility study report: Large scale dual purpose hybrid desalination plant 88(1992)123

Both P.

J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
Characterization of clean and fouled ultrafiltration membranes 68(1988)93

Botha G. R.

D. Hebden and G.R. Botha
The pretreatment of seawater RO feed using the UVOX (W/oxidant) process 32(1980)115

Bott T.R.

J.S. Gudmundsson and T.R. Bott
Deposition of silica from geothermal waters on heat transfer surfaces 28(1979)125

Bottino A.

S. Munari, A. Bottino, G. Capannelli and P. Moretti
Membrane morphology and transport properties 53(1985)11

A. Bottino, G. Capannelli, S. Munari and A. Turturro
High performance ultrafiltration membranes cast from LiCl doped solutions 68(1988)167

S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes 70(1988)265

S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
Preparation of ultrafiltration membranes. State of the art 77(1990)85

P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
Characterization of ultrafiltration polymeric membranes 78(1990)235

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

Bou-Hamed S.

S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney
Microfiltration system as a pretreatment for RO units: Technical and economic assessment 109(1997)165

S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji
Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique 110(1997)85

Bou-Hassan A. H.

F.H. Butt and A.H. Bou-Hassan
Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait 36(1981)129

F.H. Butt and A.H. Bou-Hassan
Short-term low as well as high temperature operation of an MSF plant using Belgard EVN as a scale control additive 42(1982)79

Boudet-Dummy M.

G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach
Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid 80(1991)193

A. Lindheimer, M. Boudet-Dumy and C. Gavach
Electrodialysis of hydrochloric acid 94(1993)151

Boulanouar I.

I. Boulanouar, S. Nicolas and B. Bariou
Ultrafiltration and reverse osmosis in unstirred batch cell of charged solutes (protein, salts) with total retention 104(1996)83

Boulter D. G.

N.M. Wade, R. Heaton and D.G. Boulter
Desalination and water reuse. Comparison of MSF and RO in dual purpose power and water plants 55(1985)373

Bourdillon C.

M. Metayer, C. Bourdillon and E. Selegny
Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off 13(1973)129

Bourgeois S.

D.L. Brining, W.C. Lester, W.N. Jessee, D.A. O'Leary, S. Bourgeois and M.S.A. Salam
Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region 39(1981)255

Bouscher M.

M. Bouscher, D. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows 36(1981)307

M. Bouscher, P. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients 49(1984)17

Bowdoin P.

E. Edwards and P. Bowdoin
Irrigation with membrane plant concentrate: Fort Myers case study 78(1990)49

Bowen P. T.

T.M. Fuqua, P.T. Bowen and R.S. Ortiz
Using reclaimed water for shallow aquifer recharge 88(1992)243

Bowler C.

C. Bowler, S.H. Greenhalgh and M.S. Brenji
Process design of a 30000 m3/d advanced water re-use facility for Jeddah, Saudi Arabia 56(1985)47

C. Bowler and S.H. Greenhalgh
Water reclamation from sewage using traditional techniques — Some large scale examples 56(1985)131

Bowman M.

M. Bowman
On-site tertiary treatment using Ecomax systems 106(1996)305

Bowman T. E.

T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione
Design of a small solar-powered desalination system 39(1981)71

Boyden B.H.

B.H. Boyden and A.A. Rababah
Recycling nutrients from municipal wastewater 106(1996)241

Bozzini P.

S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini
Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant 38(1981)185

R. Borsani, P. Bozzini, A. Germanà, P. Peluffo and A. Al Radif
12 migd multistage flash desalination plant. A challenge for the next years 96(1994)325

Bozzo A. T.

A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn
The properties of the hydrates of chlorine and carbon dioxide 16(1975)303

Bradie J.K.

A.N. Dickson and J.K. Bradie
Some basic aspects of the flash-distillation process 5 suppl.(1969)859

Bramson D.

D. Bramson, D. Hasson and R. Semiat
The roles of gas bubbling, wall crystallization and particulate deposition in CaSO4 scale formation 100(1995)105

D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat
Influence of the flow system on the inhibitory action of CaCO3 scale prevention additives 108(1996)67

Brandani P.

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of sulfate salts 89(1992)185

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of chloride salts 91(1993)21

Brandani V.

D. Barba, V. Brandani, G. Di Giacomo and P.U. Foscolo
Magnesium oxide production from concentrated brines 33(1980)241

D. Barba, V. Brandani and P.U. Foscolo
A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening 48(1983)133

D. Barba, V. Brandani and G. di Giacomo
CaS04 scale conditions of membranes predicted by a multi-ion thermodynamic model 54(1985)227

V. Brandani, G. Del Re and G. di Giacomo
A new model for predicting thermodynamic properties of sea salt solutions 56(1985)299

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature 65(1987)101

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Activity coefficients in aqueous multicomponent electrolyte solutions from ambient to 200°C 65(1987)113

G. Di Giacomo, V. Brandani and G. Del Re
Evaporation of olive oil mill vegetation waters 81(1991)249

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of sulfate salts 89(1992)185

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of chloride salts 91(1993)21

Brandel A.

A. Brandel and J. Riebe
Removal of accumulated deposits by chemical treatments in multistage flash distillation units 31(1979)341

Brandon C. A.

C.A. Brandon and J.L. Gaddis
Full-scale demonstration of hyperfiltration for closed-cycle textile dyeing facility 23(1977)19

C.A. Brandon and M. Samfield
Application of high-temperature hyperfiltration to unit textile processes for direct recycle 24(1978)97

C.A. Brandon
Hyperfiltration for recycle of 82°C textile wash water 32(1980)409

C.A. Brandon, D.A. Jernigan, J.L. Gaddis and H.G. Spencer
Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration 39(1981)301

Brandt D. C.

D.C. Brandt
Seawater reverse osmosis: an economic alternative to distillation 52(1985)177

D.C. Brandt
An electrolytic chlorination system for pretreatment and post-treatment in desalination systems 102(1995)321

Brauner N.

D. Moalem-Maron, G. Ingel and N. Brauner
Wettability and break-up of thin films on inclined surfaces with continuous and intermittent feed 42(1982)87

N. Brauner, D. Moalem-Maron and Z. Harel
Wettability, rewettability and breakdown of thin films of aqueous salt solutions 52(1985)295

Bregman J. I.

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Inorganic ion-exchange membranes and their application to electrodialysis 1(1966)231

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Electrodialytic demineralization of brackish waters by using inorganic ion-exchange membranes 5(1968)371

Brenji M. S.

C. Bowler, S.H. Greenhalgh and M.S. Brenji
Process design of a 30000 m3/d advanced water re-use facility for Jeddah, Saudi Arabia 56(1985)47

Bresler S.A.

S.A. Bresler and E.F. Miller
A conceptual nuclear energy centre for the co-production of agricultural chemicals and desalted water to serve a pilot food factory 5 suppl.(1969)683

Brewster M. R.

M.R. Brewster and O.K. Buros
The use of non-conventional water resource alternatives in water short areas 56(1985)89

Brian P. L. T.

S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim
The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers 17(1975)3

Brice D. B.

D.B. Brice and D.S. Briggs
Nuclear energy for desalination 2(1967)89

J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto
Reclamation of irrigation field drainage water 19(1976)153

Bridle D.A.

K. Harding, D.A. Bridle and F. Thorne
Chemical descaling of acid dosed desalination plants 27(1978)273

K. Harding and D.A. Bridle
Corrosion measurement and assessment in acid dosed desalination plants 28(1979)89

Briggs D. S.

D.B. Brice and D.S. Briggs
Nuclear energy for desalination 2(1967)89

Brining D. L.

D.L. Brining, W.C. Lester, W.N. Jessee, D.A. O'Leary, S. Bourgeois and M.S.A. Salam
Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region 39(1981)255

Brink L. E. S.

L.E.S. Brink and D.J. Romijn
Reducing the protein fouling of polysulfone surfaces and polysulfone ultrafiltration membranes: Optimization of the type of presorbed layer 78(1990)209

Broens L.

L. Broens, D.M. Koenhen and C.A. Smolders
On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes 22(1977)205

L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
Asymmetric membrane structures as a result of phase separation phenomena 32(1980)33

Bromley L. A.

L.A. Bromley
Multiple-effect rotating evaporator 1(1966)367

L.A. Bromley and S.M. Read
Multiple effect flash (MEF) evaporator 7(1970)343

S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley
Viscosity of sea water solutions 13(1973)37

V.C. van der Mast, S.M. Read and L.A. Bromley
Boiling of natural sea water in falling film evaporators 18(1976)71-94

Bronshtein A. I.

V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein
The rate of heat transfer of seawater and NaCl solutions under conditions of one- and two-phase flow in tubes 26(1978)175

Brosh R. A.

R.A. Brosh
Trends in the application of solar energy to water desalination 40(1982)95

Brouckaert C. J.

J.W. Hunt, C.J. Brouckaert, J.D. Raal, K. Treffry-Goatley and C.A. Buckley
The unsteady-state modelling of cross-flow microfiltration 64(1987)431

A. Erswell, C.J. Brouckaert and C.A. Buckley
The reuse of reactive dye liquors using charged ultrafiltration membrane technology 70(1988)157

V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal
Predicted performance profiles along a long-tube cross-flow microfiltration system 71(1989)247

Brousse C.

C. Brousse, R. Chapurlat and J.P. Quentin
New membranes for reverse osmosis. I. Characteristics of the base polymer: sulphonated polysulphones 18(1976)137

Brouwer J.P.

J.P. Brouwer, M.M.C. Alkemade and G. Bierman
Techno-economic comparison of technologies for the concentration of a mixed leachant bleed stream 101(1995)211

Brown D. R.

D.R. Brown
Treating Bahrain Zone C groundwater using the EDR process 38(1981)537

Brown R. G.

S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
Aromatic/cycloaliphatic polyamide membrane 64(1987)259

Brucker F.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Bruin S.

J. Hiddink, D. Kloosterboer and S. Bruin
Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids 35(1980)149

S. Bruin, A. Kikkert, J.A.G. Weldring and J. Hiddink
Overview of concentration polarization in ultrafiltration 35(1980)223

Brun R.

R. Brun, E. Dubois and Y. Duriau
Behaviour of cellulose acetate membranes in reverse osmosis (in French) 4(1968)119

C. Bardonnet, R. Brun and M. Pages
A new support for semi-permeable membranes 21(1977)203

Brunelle M. T.

M.T. Brunelle
Colloidal fouling of reverse osmosis membranes 32(1980)127

Brunet S.

S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Stress corrosion of austenitic stainless steels in chloride environments (in French) 3(1967)118

Brunner G.

K. Kuenstle and G. Brunner
An integrated self sufficient multipurpose plant for seawater desalination 39(1981)459

Bruno-Vega A.

A. Bruno-Vega and K.S. Thomas
The Virgin Islands desalination experience 98(1994)443

Brüschke H. E. A.

G.F. Tusel and H.E.A. Brüschke
Use of pervaporation systems in the chemical industry 53(1985)327

H.E.A. Brüschke
Removal of ethanol from aqueous streams by pervaporation 77(1990)323

Brusilovsky M.

M. Brusilovsky and D. Hasson
Prediction of reverse osmosis membrane salt rejection in multi-ionic solutions from single-salt data 71(1989)355

M. Brusilovsky, J. Borden and D. Hasson
Flux decline due to gypsum precipitation on RO membranes 86(1992)187

Bryan R. A.

P. Heinemann, J.A. Howell and R.A. Bryan
Microfiltration of protein solutions: Effect of fouling on rejection 68(1988)243

Bryant T.

T. Bryant, J. Stuart, I. Fergus and R. Lesan
The use of reverse osmosis as a 35,600 m3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia 67(1987)327

J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli
Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia 75(1989)379

Buchan M. I.

K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley
The dewatering of sludges using a tubular filter press 67(1987)467

Büchel H. G.

R. Rautenbach and H. G. Büchel
Modular program for design and simulation of desalination plants 31(1979)85

R. Rautenbach and H.G. Büchel
Simulation of thermal desalination processes, some results 45(1983)37

Buckingham R.

M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner
New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration 105(1996)57

Buckley C. A.

R.L.C. Flemmer, C.A. Buckley and G.R. Groves
An analysis of the performance of a spiral wound ultrafiltration membrane, with a turbulence-promoting net 41(1982)25

C.A. Buckley, R.L.C. Flemmer and G.R. Groves
Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents 47(1983)171

G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson
Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse 47(1983)305

K. Treffry-Goatley, C.A. Buckley and G.R. Groves
Reverse osmosis treatment and reuse of textile dyehouse effluents 47(1983)313

R.L.C. Flemmer, C.A. Buckley and G.R. Groves
The arrangement of spiral-wound ultrafiltration modules 61(1987)159

J.W. Hunt, K. Treffry-Goatley, R.L.C. Flemmer, J.D. Raal and C.A. Buckley
A mathematical model of steady-state cross-flow microfiltration in a woven hose support 61(1987)187

A.E. Simpson, C.A. Kerr and C.A. Buckley
The effect of pH on the nanofiltration of the carbonate system in solution 64(1987)305

J.W. Hunt, C.J. Brouckaert, J.D. Raal, K. Treffry-Goatley and C.A. Buckley
The unsteady-state modelling of cross-flow microfiltration 64(1987)431

C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen
The use of speciation and X-ray techniques for determining pretreatment steps for desalination 66(1987)327

O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde
The treatment of industrial effluents with high salinity and organic contents 67(1987)395

A.E. Simpson and C.A. Buckley
The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water 67(1987)409

C.A. Buckley, A.E. Simpson, C.A. Kerr and C.F. Schutte
The treatment and disposal of waste brine solutions 67(1987)431

K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
The cross-flow microfiltration of problematic surface and river waters to produce potable water 67(1987)439

A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley
The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping 67(1987)455

K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley
The dewatering of sludges using a tubular filter press 67(1987)467

F.G. Neytzell-de Wilde, C.A. Buckley and M.P.R. Cawdron
Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes: low pressure formation. high pressure evaluation 70(1988)121

A. Erswell, C.J. Brouckaert and C.A. Buckley
The reuse of reactive dye liquors using charged ultrafiltration membrane technology 70(1988)157

A.E. Simpson and C.A. Buckley
The removal of sulphuric acid from natural and industrial waste waters 70(1988)431

V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal
Predicted performance profiles along a long-tube cross-flow microfiltration system 71(1989)247

Budhiraja P. K.

A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja
Operational experience of once through MSF desalination units 73(1989)327

Buijs K. R.

K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
The cross-flow microfiltration of problematic surface and river waters to produce potable water 67(1987)439

Buisson H.

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson
Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent 101(1995)155

Bulang W. E.

W. Bulang
Desalination by vapor compression 38(1981)85

W. Bulang
Large scale desalination by vapor compression 45(1983)263

Bulda F.

F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh
The barium sulfate seeding process 21(1977)59

Bullock D. C.

D.C. Bullock
Design of reverse osmosis systems for commercial seawater desalination 19(1976)397

Bunow B.J.

J.N. Weinstein, B.J. Bunow and S.R. Caplan
Transport properties of charge-mosaic membranes. I. Theoretical models 11(1972)341

Burashid K.

K. Borashid and K. Kato
Rehabilitation of desalination plants at Sitra Power Station, Bahrain 73(1989)277

M. Al-Arrayedh, K. Burashid and K. Almansoor
RAJJ RO plant operational costs optimization 97(1994)235

Burchesky R. D.

A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
Hollow fiber composite reverse osmosis membrane 20(1977)87

R.B. Davis, R.D. Burchesky and M J. Coplan
Hollow fiber composite membrane modules for reverse osmosis 22(1977)221

Burkard H.

H. Burkard
Variable speed turbo couplings used for speed control of pumps for seawater desalination plants 82(1991)107

Burke J. E.

J.E. Burke, M. Mickley, J. Truesdall and R.L. Hamilton
Usefulness of networking in membrane plant design and operation 102(1995)77

J.N. Cevaal, W.B. Suratt and J.E. Burke
Nitrate removal and water quality improvements with reverse osmosis for Brighton, Colorado 103(1995)101

Burkholder L. A.

J. Block, B.M. Watson, L.A. Burkholder and B. Albano
Effect of iron and copper during scale suppression by threshold compounds 15(1974)279

Burley M. J.

M.J. Burley
Analytical comparison of the multi-stage flash and long-tube vertical distillation processes 2(1967)81

P.A. Mawer and M.J. Burley
The conjunctive use of desalination and conventional surface water resources 4(1968)141

M.J. Burley and J.C. Clarke
Desalination in conjunction with conventional water supplies 5 suppl.(1969)617

Burney N.

S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney
Microfiltration system as a pretreatment for RO units: Technical and economic assessment 109(1997)165

Burns E.

A. Unione, E. Burns and A. Husseiny
Reliability analysis of desalination equipment 32(1980)225

A. Unione, E. Burns and A.A. Husseiny
MSF desalination plants. Availability, reliability and safety analysis 33(1980)49

Buros O. K.

O.K. Buros
Conjunctive use of desalination and wastewater reclamation in water resource planning 19(1976)587

O.K. Buros
Water re-use and conservation in the Virgin Islands 23(1977)485

O.K. Buros
Economic aspects of membrane processes 30(1979)595

O.K. Buros
The role of desalination in water reuse 32(1980)305

O.K. Buros
An introduction to new energy sources for desalination 39(1981)37

O.K. Buros
Water, the essence of life. An international congress on desalination and water reuse 41(1982)121

O.K. Buros and T. Livingston
Desalination in the Virgin Islands, 1964-1982 45(1983)195

O.K. Buros
A history of desalting water in the Virgin Islands 50(1984)87

M.R. Brewster and O.K. Buros
The use of non-conventional water resource alternatives in water short areas 56(1985)89

O.K. Buros and S. Yacoub
Water supply and desalination in Northwestern Egypt 73(1989)47

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

O.K. Buros and R.D.G. Pyne
Extending water supplies in water short areas 98(1994)437

Burris, Jr. F. O.

K.D. Vos, I. Nusbaum, A.P. Hatcher and F.O. Burris, Jr.
Storage, disinfection, and life of cellulose acetate reverse osmosis membranes 5(1968)157

Burton W.R.

W.R. Burton and A.I. Lloyd
Design features of secondary refrigerant freezing plants 14(1974)151

Busch K.W.

K.W. Busch and M.A. Busch
Laboratory studies on magnetic water treatment and their relationship to a possible mechanism for scale reduction 109(1997)131

Busch M.A.

K.W. Busch and M.A. Busch
Laboratory studies on magnetic water treatment and their relationship to a possible mechanism for scale reduction 109(1997)131

Buschatz H.

V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
Asymmetric behavior of membranes in pressure driven processes 46(1983)447

Bushnak A. A.

A.A. Bushnak, A.F. Abdul-Fattah, A.A. Husseiny and A.M. El-Nashar
Selection of desalination technology, a decision analysis approach and a case study 30(1979)483

A.M. Al-Taweel, A. Bushnak and W. Bawarith
Desalination and the reuse of agricultural drainage waters in Saudi Arabia 32(1980)341

A.A. Bushnak
Water supply challenge in the Gulf Region 78(1990)133

Butler R.

R. Butler and T. MacCormick
Opportunities for decentralized treatment, sewer mining and effluent re-use 106(1996)273

E.J. Armstrong and R. Butler
A review of effluent re-use in Coffs Harbour: Desalination versus effluent re-use at Opal Cove Resort 106(1996)285

Butt F. H.

F.H. Butt and A.H. Bou-Hassan
Performance of a polyphosphate-based scale control additive in an MSF plant of Kuwait 36(1981)129

F.H. Butt and A.H. Bou-Hassan
Short-term low as well as high temperature operation of an MSF plant using Belgard EVN as a scale control additive 42(1982)79

F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani
Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia 45(1983)345

F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin
Field trials of hybrid acid-additive treatment for control of scale in MSF plants 54(1985)307

F.H. Butt, F. Rahman and U. Baduruthamal
Identification of scale deposits through membrane autopsy 101(1995)219

F.H. Butt, F. Rahman and U. Baduruthamal
Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination 103(1995)189

F.H. Butt, F. Rahman and U. Baduruthamal
Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation 109(1997)67

F.H. Butt, F. Rahman and U. Baduruthamal
Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 2: Membrane autopsy 109(1997)83

F.H. Butt, F. Rahman and U. Baduruthamal
Evaluation of SHMP and advanced scale inhibitors for control of CaS04, SrS04, and CaC03 scales in RO desalination 109(1997)323

Butt M.I.

C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan
Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B 108(1996)37

Buyakov D.V.

Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
Experimental investigation of the dryout at low mass velocities and pressures 108(1996)375

Buys I. J. M.

J.J. Schoeman, I.J.M. Buys, I.B. Schutte and H. MacLeod
Pilot investigation on the treatment of fertilizer manufacturing process effluent using lime and electrodialysis reversal 70(1988)407

Büyükyilmaz A.

A. Büyükyilmaz, C. Özgen and T.G. Somer
Effect of inclination on the heat transfer performance of fluted tubes with and without drainage discs 65(1987)3

Byabagambi C.

W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi
Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance 38(1981)301

Byszewski C. H.

K.N. Mani, F.P. Chlanda and C.H. Byszewski
Aquatech membrane technology for recovery of acid/base values from salt streams 68(1988)149

Cabasso I.

P. Aptel and I. Cabasso
Development of a new asymmetric alloy membrane for water desalination 36(1981)25

Cabibbo S. V.

S.V. Cabibbo and J.T. Callahan
On line tube cleaning systems for polyphosphate plants 23(1977)311

R. Singh and S.V. Cabibbo
Hydraulic turbine energy recovery — RO system 32(1980)281

Cadotte J. E.

J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson
A new thin-film composite seawater reverse osmosis membrane 32(1980)25

R.E. Larson, J.E. Cadotte and R.J. Petersen
The FT-30 seawater reverse osmosis membrane: Element test results 38(1981)473

J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
Nanofiltration membranes broaden the use of membrane separation technology 70(1988)77

Cai Bangxiao

Yurong Liu, Kongmon Lang, Yiming Chen and Bangxiao Cai
Effect of heat treating and dry conditions on the performance of cellulose acetate reverse osmosis membrane 54(1985)185

Liu Yurong, Cai Bangxiao, Chen Yiming and Lang Kangmin
Concentrating xylose solution by reverse osmosis with cellulose acetate dry membrane 62(1987)193

Cai Bang-xiao, Lang Kong-min, Liu Yu-rong and Chen Yi-ming
The refinement and concentration of agricultural antibiotic A in aqueous solution using membrane processes 62(1987)341

Cakl J.

P. Mikulásek and J. Cakl
Removal of industrial latex dispersions from waste waters using microporous alumina membranes 95(1994)211

Calabro V.

V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli
Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis 78(1990)257

V. Calabrò, E. Drioli and F. Matera
Membrane distillation and wastewater treatment 83(1991)209

V. Calabro and E. Drioli
Polarization phenomena in integrated reverse osmosis and membrane distillation for seawater desalination and waste water treatment 108(1996)81

Calder-Potts I.

W. Wilson, A. Gruendisch and I. Calder-Potts
The use of Pelton wheel turbines for energy recovery in reverse osmosis systems 65(1987)231

Callahan J. T.

S.V. Cabibbo and J.T. Callahan
On line tube cleaning systems for polyphosphate plants 23(1977)311

Callies D.

D. Callies, A. Clayer and J. Orssaud
Possibilities of the osmosis process (in French) 4(1968)55

Callister I.K.

A.J. Morton, I.K. Callister and N.M. Wade
Environmental impacts of seawater distillation and reverse osmosis processes 108(1996)1

Calmon C.

G.P. Simon and C. Calman
Experimental methods for the determination of non-transport properties of membranes 59(1986)61

Camera Roda G.

S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
Preparation of ultrafiltration membranes. State of the art 77(1990)85

P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
Characterization of ultrafiltration polymeric membranes 78(1990)235

Cameron R.G.

R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson
A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models 17(1975)313

Campana R.

D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas
Desalination of municipal wastewater for horticultural reuse: Process description and evaluation 103(1995)1

Campbell J. S.

H.C. Chu, J.S. Campbell and W.G. Light
High-temperature reverse osmosis membrane element 70(1988)65

M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner
New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration 105(1996)57

Campbell R.L.

R.L. Campbell and T.H. Emerson
A new water and power combination: Vacuum vapor compression seawater distillation and natural gas fuel cells 99(1994)423

Campos D.

S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
Aromatic/cycloaliphatic polyamide membrane 64(1987)259

Cane D.

T.J. Rabas and D. Cane
An update of intube forced convection heat transfer coefficients of water 44(1983)109

D.L. Moen and D. Cane
An improved MSF evaporator configuration 45(1983)25

Canepa G.

G. Canepa, S. Munari, C. Rossi and F. Vigo
Preparation and properties of membranes obtained by radiation induced grafting of 4-vinylpyridine onto polytetrafluoroethylene films 13(1973)159

Canetta V.

V. Canetta and N.M. Valota
MSF (multi stage flash) desalination plants: Copper alloy tubes, their economic aspects for overall cost reduction 55(1985)307

Cantera F.

F. Cantera, J. Guzman and R. Sterner
Activities in Spain 39(1981)385

F. Cantera Palacios and J. Ma. Sánchez-Sánchez
Optimization in dual purpose plants 45(1983)109

F. Cantera Palacios and J.-Ma. Sánchez-Sánchez
Optimization in dual purpose plants 45(1983)391

J. Cortés and F. Cantera
Basic parameters of design on a VC-VTE process with high ER 55(1985)69

Canton G.

C. Temstet, G. Canton, J. Laborie and A. Durante
A large high-performance MED plant in Sicily 105(1996)109

Cao Suqin

Yu Xianda, Wang Anlai and Cao Suqin
Water-vapor permeability of polyvinyl alcohol films 62(1987)293

Caouris Y. G.

Y.G. Caouris, E.T. Kantsos and N.G.Zagouras
Economic aspects of low-temperature multi-effect desalination plants 71(1989)177

Capannelli G.

F. Vigo, G. Capannelli, C. Uliana and S. Munari
Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application 36(1981)63

F. Vigo, G. Capannelli and S. Munari
Amphoteric membrane preparation and their application to saline water hyperfiltration 37(1981)313

S. Munari, A. Bottino, G. Capannelli and P. Moretti
Membrane morphology and transport properties 53(1985)11

A. Bottino, G. Capannelli, S. Munari and A. Turturro
High performance ultrafiltration membranes cast from LiCl doped solutions 68(1988)167

S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes 70(1988)265

S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
Preparation of ultrafiltration membranes. State of the art 77(1990)85

P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
Characterization of ultrafiltration polymeric membranes 78(1990)235

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

Capdeville B.

G. Crozes, B. Capdeville and A. Moro
Gel permeation: A means to characterize wastewater and residual dissolved organic matter in effluents 106(1996)213

Capes C.E.

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson
Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent 101(1995)155

Caplan S.R.

J.N. Weinstein, B.J. Bunow and S.R. Caplan
Transport properties of charge-mosaic membranes. I. Theoretical models 11(1972)341

J.N. Weinstein, B.M. Misra, D. Kalif and S.R. Caplan
Transport properties of charge-mosaic membranes. II. Experimental studies 12(1973)1

C.R. Gardner, J.N. Weinstein and S.R. Caplan
Transport properties of charge-mosaic membranes. III. Piezodialysis 12(1973)19

Caplin D.

J. Adar, D. Caplin, G. Frank and O. Tavory
Preliminary study of a desalination-power-industrial complex in Israel 5 suppl.(1969)757

Cardona E.

E. Cardona, S. Culotta, L. Mangiaracina and R. Terranova
Multi-flash desalination and cogeneration to solve the water supply problems in southeastern Sicily 106(1996)121

Carew J. A.

J. Carew, M. Abdel-Jawad, A. Julka and Y. Al-Wazzan
Performance of materials used in seawater reverse osmosis plants 74(1989)85

J.A. Carew, M. Abdel-Jawad and Y. Al-Wazzan
Evaluation of corrosion-resistant alloys for desalination applications 95(1994)53

Carey W. W.

W.W. Carey, N.A. Klausutis and A.J. Barduhn
Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions 1(1966)342

Carg S. K.

S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar
Development of humidification-dehumidification technique for water desalination in arid zones of India 5(1968)55

Carlson F.

F. Carlson
Environmental problems of siting and operating desalination plants in the United States 30(1979)425

Carlsson L.

L. Carlsson
The new generation in sea water desalination SU membrane desalination system 45(1983)221

Carnahan R. P.

M. Barger and R.P. Carnahan
Fouling prediction in reverse osmosis processes 83(1991)3

R.P. Carnahan, L. Bolin and W. Suratt
Biofouing of PVD-1 reverse osmosis elements in the water treatment plant of the City of Dunedin, Florida 102(1995)235

Carolei G.

G. Carolei, C. Franzosi and M. Jemma
Dessalement de l'eau de mer et production d'énergie électrique: résultats d'exploitation des installations de l'Italsider à Tarente 5 suppl.(1969)111

Carrieri C.

G. Boari, C. Carrieri, P. Mappelli and M. Santori
Reverse osmosis pilot plants performance in brackish water desalination 24(1978)341

Carrigan W. V.

G. Hess, O.J. Morin and W.V. Carrigan
Seawater desalting for Southern California: Technical and economic considerations 87(1992)55

Carruthers M. S.

M.H. Auerbach and M.S. Carruthers
Laboratory applications testing of desalination antiscalants 31(1979)279

Carter J.W.

J.W. Carter, G. Psaras and M.T. Price
Effect of precipitating media on the performance of porous cellulose acetate reverse osmosis membranes 12(1973)177

Cartwright G.

D.T. Jamieson, J.S. Tudhope, R. Morris and G. Cartwright
Physical properties of sea water solutions: Heat capacity 7(1969)23

Cartwright P. S.

P.S. Cartwright
Membranes separations technology for industrial effluent treatment — A review 56(1985)17

P.S. Cartwright
Ultrapure water system design considerations 67(1987)171

P.S. Cartwright
Zero discharge/water reuse. The opportunities for membrane technologies in pollution control 83(1991)225

Casamento P.

F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor
Scale control by polyacrylates: The effects of molecular weight and of traces of metals 8(1970)167

Case P. A.

R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami
Recent developments in thin-film composite reverse osmosis membrane systems 36(1981)207

Casini G. F.

G.F. Casini, I.S. Di Simone and M. Minervini
Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives 39(1981)339

G.F. Casini
The application of a high temperature scale control additive in a Middle East MSF plant 47(1983)19

Casolo A. J.

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Inorganic ion-exchange membranes and their application to electrodialysis 1(1966)231

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Electrodialytic demineralization of brackish waters by using inorganic ion-exchange membranes 5(1968)371

Cassano A.

A. Cassano, E. Drioli, R. Molinari and C. Bertolutti
Quality improvement of recycled chromium in the tanning operation by membrane processes 108(1996)193

Cassinari A.

A. Cassinari, A. Gandellini and A. Vaudo
Conception et implantation du réacteur ROVI: pour le dessalement de l'eau de mer 5 suppl.(1969)297

Castellari C.

C. Castellari and S. Ottani
Optimal conditions for obtaining polymeric membranes in binary systems: a numerical analysis 49(1984)141

C. Castellari and S. Ottani
Phase inversion in plane membranes. I. Computer-aided gravimetric data acquisition and fitting procedures of the desolvation kinetics 69(1988)211

C. Castellari
Phase inversion in plane membranes. II. A direct comparison between experiments and evaporation model predictions 69(1988)223

Catanzaro E.

R. Bakish, E. Catanzaro and W. Arthur
Experiences from continuing education training in desalination 30(1979)443

R. Bakish and E. Catanzaro
Outline of a training manual for desalination plant operators 30(1979)461

Cavalieri L.

L. Cavalieri and G. Nasser
Seawater desalination with very low energy consumption 44(1983)143

Cawdron M. P. R.

F.G. Neytzell-de Wilde, C.A. Buckley and M.P.R. Cawdron
Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes: low pressure formation. high pressure evaluation 70(1988)121

Celenza W.J.

G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza
Vapor-liquid equilibrium in capillary distillation 81(1991)161

Cevaal J. N.

J.N. Cevaal, W.B. Suratt and J.E. Burke
Nitrate removal and water quality improvements with reverse osmosis for Brighton, Colorado 103(1995)101

Chaffiotte P. Ph.

P.P. Chaffiotte
Gas turbines and fresh water. Technical and economic aspects (in French) 3(1967)46

Chaibi M. T.

M.T. Chaibi, M.J. Safi and M. Hsairi
Performance analysis of a solar desalting unit in South Tunisia 82(1991)197

Chakravorty B.

B. Chakravorty, R.N. Mukherjee and S. Basu
Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents 46(1983)353

B. Chakravorty and A.S. Srivastava
Application of membrane technologies for recovery of water from pulp and paper mill effluents 67(1987)363

B. Chakravorty and D.P. Singh
Concentration and purification of gelatin liquor by ultrafiltration 78(1990)279

B. Chakravorty and A. Layson
Ideal feed pretreatment for reverse osmosis by continuous microfiltration 110(1997)143

Chalchal S.

S. Chalchal
Operating experience of a large multistage flash evaporator in Sultanate of Oman 31(1979)333

F.G. Abbosh, I. Kamal, S. Chalchal and H. Gerke
Design and performance of the world's largest operating dual-purpose sea water desalting plant 45(1983)223

Chambers S.

S. Chambers
The steam-generating heavy-water reactor in dual-purpose applications 5 suppl.(1969)331

Chammem A.A.

A.I. Abdula'aly and A.A. Chammem
Groundwater treatment in the Central Region of Saudi Arabia 96(1994)203

A.I. Alabdula'aly and A.A. Chammem
KACST mobile drinking water treatment plant for research 98(1994)71

Chan A.S.

P.J. Schroeder, A.S. Chan and A.R. Khan
Freezing processes — the standard of the future 21(1977)125

Chan Kam

Shi Qiu Zhang, A.E. Fouda, T. Matsuura and Kam Chan
Some experimental results and design calculations for reverse osmosis concentration of green tea juice 80(1991)211

Chan Martin C.

M.C. Chan and J.W. McCutchan
Specification of cellulose acetate to be used in semipermeable membranes 17(1975)353

C.R. Scherer and M.C. Chan
Estimating short-run operating costs for a reverse osmosis desalting plant 18(1976)241

Chan R. C.

S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley
Viscosity of sea water solutions 13(1973)37

Chan Ying Kwong

Ying Kwong Chan and Kwok Kuen Leung
Chemical removal of calcium sulfate scale — Plant experience of Lok On Pai desalter 30(1979)359

Chandasekhara Reddy B.

M. Chidambaram, B. Chandasekhara Reddy and D.M.K. Al-Gobaisi
Design of robust SISO PI controllers for a MSF desalination plant 109(1997)109

Chandorikar M. V.

C.V. Devmurari and M.V. Chandorikar
Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration 48(1983)331

Chang Ho Nam

In Ho Kim, In Soek Kang and Ho Nam Chang
Mass transfer in the U-turn of an electrodialyzer 33(1980)139

Ho Nam Chang
Reverse osmosis separation of inorganic salts using polyvinylalcohol membranes 42(1982)63

Chang Y.-C.

Y.-C. Chang and S.-P. Li
A study of emulsified liquid membrane treatment of phenolic waste water 47(1983)351

Changluo Z.

Z. Changluo, L. Moe, X. Wei and J. Wenchang
A study on characteristics and enhancement of pervaporation - membrane separation process 71(1989)1

Channabasappa K.C.

J.D. Sheppard, D.G. Thomas and K.C. Channabasappa
Membrane fouling. Part IV. Parallel operation of four tubular hyperfiltration modules at different velocities with feeds of high fouling potential 11(1972)385

K.C. Channabasappa
Status of reverse osmosis desalination technology 17(1975)31

K.C. Channabasappa
Need for new and better membranes 18(1976)15

K.G. Patel, F.L. Harris and K.C. Channabasappa
Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA 19(1976)381

K.C. Channabasappa
A comparison of seawater desalination processes and their economics 19(1976)535

K.C. Channabasappa
Membrane technology for water re-use application 23(1977)495

Chao B.T.

E.F. Janzow and B.T. Chao
Salt entrainment in ice crystallized from brine 12(1973)141

E.F. Janzow and B.T. Chao
Induced crystallization of large free ice crystals in slowly flowing brine 12(1973)163

Chapiro A.

A. Chapiro and A.-M. Jendrychowska-Bonamour
Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films 24(1978)83

Chapman J. W.

J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis
Selection, design and procurement of a demineralization system for a surface water treatment plant 88(1992)3

Chapotot A.

A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach
Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons 101(1995)141

Chapoy L. L.

J. Adduci, L.L. Chapoy, G. Jonsson, J. Kops and B.M. Shinde
Semi-stiff chain aromatic polyamic-acids: new candidates for reverse osmosis membranes 46(1983)349

G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard
The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes 46(1983)435

Chapple L.

B. Watson, G. Marks, E. Gabbrielli and L. Chapple
Design and operation of a 5 ml/d RO desalination plant in arid Australia 96(1994)369

Chapurlat R.

C. Brousse, R. Chapurlat and J.P. Quentin
New membranes for reverse osmosis. I. Characteristics of the base polymer: sulphonated polysulphones 18(1976)137

Chau D.S.C.

W. Rice and D.S.C. Chau
Freeze desalination using hydraulic refrigerant compressors 109(1997)157

Chaufer B.

B. Chaufer, M. Rabiller-Baudry, L. Guihard and G. Daufin
Retention of ions in nanofiltration at various ionic strength 104(1996)37

Chauhan D. K.

P.K. Narayanan, W.P. Harkare, S.K. Adhikary, N.J. Dave, D.K. Chauhan and K.P. Govindan
Performance of an electrodialysis desalination plant in rural area 54(1985)145

S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
Desalination of brackish water of higher salinity by electrodialysis 84(1991)189

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

Chauhan G.S.

I. Kaur, A. Gupta, B.N. Misra and G.S. Chauhan
Functionalization of polyethylene film by radiochemical grafting for use as membranes in seawater desalination 110(1997)115

I. Kaur, G.S. Chauhan, B.N. Misra and A. Gupta
Synthesis and characterization of grafted polyethylenes for use as membranes in water desalination 110(1997)129

Chebi P.B.

T. Hamano, P.B. Chebi, L. Gerdes and T.D. Wolfe
The development of a new electrodialysis system for brackish water 96(1994)23

P.B. Chebi and T. Hamano
Pilot runs at the Santa Anna Watershed Project Authority using Asahi electrodialysis 103(1995)69

Chen Chen

C. Chen and C.A. Petty
Flow characteristics of semipermeable hollow fibers undergoing reverse osmosis 12(1973)281

Jiajun Hu, Dekuan Kang and Chen Chen
A preliminary probe about effects of organic solvent in membranes casting solution — Effects of poor solution 56(1985)333

Chen DongSheng

Yu-rong Liu, Yi-ming Chen, Li-ning Wang and Dong-sheng Chen
A study of the modified reinforced polysulfone membrane and its pilot scale-up 96(1994)145

Chen HsiaoSheng

A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn
The properties of the hydrates of chlorine and carbon dioxide 16(1975)303

Chen James

K. Hamby and J. Chen
Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant 76(1989)3

J. Chen, H.S. Lu and L. Awerbuch
Seawater desalination to augment the water supply on Penghu Island, Taiwan 97(1994)319

Chen JiaYan

Chen Jiayan, Bi Shuchun, Zhang Xingda and Zheng Lingying
Morphology of aromatic polyamide type asymmetric reverse osmosis membranes 34(1980)97

Guanghu Fan, Baoquan Zhao, Jiayan Chen and Lingying Zheng
The mechanism of the formation of aromatic polyamide type asymmetric RO membranes 46(1983)321

J.-Y. Chen, M. Kurihara and W. Pusch
Transport coefficients of asymmetric and composite membranes 46(1983)379

J.-Y. Chen, H. Nomura and W. Pusch
Temperature dependence of membrane transport parameters in hyperfiltration 46(1983)437

Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan
Study on the interaction between membranes and organic solutes by the HPLC method 71(1989)107

Ji Jiang and Chen Jiayan
Study on interactions between PBIL membranes and organic solutes 78(1990)389

Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu
The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence) 85(1992)297

Chen Jiayan, Wang Liancheng and Zhu Zhengyu
Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations 86(1992)301

Jiayian Chen
A science and technology with rich vitality – desalination 100(1995)13

Chen Leo-Wang

Tai-Horng Young and Leo-Wang Chen
Pore formation mechanism of membranes from phase inversion process 103(1995)233

Chen Ming L.

Sheng H. Lin and Ming L. Chen
Purification of textile wastewater effluents by a combined Fenton process and ion exchange 109(1997)121

Chen Pei-qi

Song Shi and Pei-qi Chen
Design and field trials of a 200 m3/day sea water desalination by electrodialysis 46(1983)191

Chen S. F.

S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley
Viscosity of sea water solutions 13(1973)37

Chen William H.

M. Elimelech, William H. Chen and J.J. Waypa
Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer 95(1994)269

Chen Yiming

Yurong Liu, Kongmon Lang, Yiming Chen and Bangxiao Cai
Effect of heat treating and dry conditions on the performance of cellulose acetate reverse osmosis membrane 54(1985)185

Liu Yurong, Cai Bangxiao, Chen Yiming and Lang Kangmin
Concentrating xylose solution by reverse osmosis with cellulose acetate dry membrane 62(1987)193

Cai Bang-xiao, Lang Kong-min, Liu Yu-rong and Chen Yi-ming
The refinement and concentration of agricultural antibiotic A in aqueous solution using membrane processes 62(1987)341

Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
Low-pressure reverse osmosis drying membrane reinforced by polyester web 64(1987)403

Liu Yurong, Chen Yiming, Wang Lining and Jiang Jianhua
Study of stevioside preparation by membrane separation process 83(1991)375

Yu-rong Liu, Yi-ming Chen, Li-ning Wang and Dong-sheng Chen
A study of the modified reinforced polysulfone membrane and its pilot scale-up 96(1994)145

Chen Yitang

Yitang Chen, Qunshu Wang and Shouxiang Jiang
Abstracts from Technology of Water Treatment 79(1990)95

Chencinsky A.

M. Wilf, M. Konstantin and A. Chencinsky
Evaluation of an ion-exchange system regenerated with seawater for the increase of product recovery of reverse osmosis brackish water plant 34(1980)189

Cheng C. Y.

L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang
Optimal design of desalination systems 3(1967)225

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis 4(1968)336

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization 4(1968)361

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation 5(1968)237

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization 6(1969)131

L.T. Fan, C.L. Hwang, N.C. Pereira, L.E. Erickson and C.Y. Cheng
Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization 11(1972)217

Cheng Chen-Yen

Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins
Desalination by the improved vacuum freezing high pressure ice melting process 42(1982)141

C.Y. Cheng, W.C. Cheng and M.D. Yang
The vacuum freezing multiple phase transformation process 67(1987)139

Cheng Peng

Bing-hua Zhu and Peng Cheng
The industrial application of ultrafiltration membranes 90(1993)119

Cheng R.

R. Cheng, J. Glater, J.B. Neethling and M.K. Stenstrom
The effects of small halocarbons on RO membrane performance 85(1991)33

Cheng W. C.

C.Y. Cheng, W.C. Cheng and M.D. Yang
The vacuum freezing multiple phase transformation process 67(1987)139

Chereisky Z. Y.

N.P. Leksovskaia, Z.Y. Chereisky, I.G. Ruban and O.I. Nachinkin
Effect of the solution-gel-solid system transition on the properties of microfiltration membranes 86(1992)91

Cherif A.T.

A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach
Transfer of H2SO4, Na2SO4 and ZNSO4 by dialysis through an anion exchange membrane 101(1995)39

S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach
Continuous electropermutation with ion-exchange textiles 104(1996)227

Cherney S.

G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen
Calcium removal from sea water by fixed-bed ion exchange 4(1968)158

Chernozubov V. B.

V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novikov and V.I. Tkach
Prevention of scale formation in distillation desalination plants by means of seeding 1(1966)50

F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience 1(1966)165

L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova
Investigation of water steam drop condensation conditions 2(1967)337

L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Viceblatt and V.M. Lavygin
The choice of basic parameters of a multi-stage flash plant for sea water desalination 4(1968)94

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo
Test of the desalting flash pilot plant with recirculating seed 5(1968)34

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin
Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design 45(1983)15

N.M. Sinev, V.G. Shatsillo, V.B. Chernozobov, A.A. Samarkin and J.S. Baranov
Investigation of water desalination by distillation technique 45(1983)315

Chernyaev V. A.

Y.I. Koryakin, A.A. Loginov and V.A. Chernyaev
Methodological aspects of technico-economic parameters of nuclear desalination plants 7(1970)323

Cheryan M.

B. Ali Asbi and M. Cheryan
Optimizing process time for ultrafiltration and diafiltration 86(1992)49

Chia P. S.

T. Hodgkiess and P.S. Chia
Assessment of lower-alloy stainless steels for use in desalination plant 84(1991)267

Chida K.

H.W. Pohland, A.B. Hamida and K. Chida
Reliable supply of drinking water through use of high performance B-10 "TWIN" permeators. A one year case history at Das Island, UAE 96(1994)303

K. Chida
Reverse osmosis plants operation and maintenance experience in the Middle Eastern region 110(1997)59

Chidambaram M.

M. Chidambaram, B. Chandasekhara Reddy and D.M.K. Al-Gobaisi
Design of robust SISO Pl controllers for a MSF desalination plant 109(1997)109

Chieng Chungcheng

C.-C. Chieng and G.H. Nancollas
The crystallization of magnesium hydroxide, a constant composition study 42(1982)209

Childs W. D.

W.D. Childs and A.E. Dabiri
Desalination cost savings of Vari-ROTM pumping technology 87(1992)109

W.D. Childs and A.E. Dabiri
Increased water production using a heat recovery engine for "Direct Drive" VARI-ROTM Pumping 96(1994)81

W.D. Childs and A.E. Dabiri
VARI-RO™ low energy desalting for the San Diego region 103(1995)49

Chillón M.F.

D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter
Alicante University, closed water cycle, reverse osmosis and water treatment plants 109(1997)315

Chin Ridge K.K.

K.K. Chin
Pretreatment to produce ultrapure water from reclaimed sewage 106(1996)269

Chiolle A.

L. Credali, A. Chiolle and P. Parrini
New polymer materials for reverse osmosis membranes 14(1974)137

P. Mappelli, M. Santori, A. Chiolle and G. Gianotti
Membrane processes used for the treatment of industrial effluents 24(1978)155

A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini
Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets 26(1978)3

Chiu W. Y.

K.H. Hsieh, B.Y. Lin and W.Y. Chiu
Studies on diisocyanate-modified cellulose acetate membranes 71(1989)97

Chlanda F. P.

K.N. Mani, F.P. Chlanda and C.H. Byszewski
Aquatech membrane technology for recovery of acid/base values from salt streams 68(1988)149

Chlubek N.

N. Chlubek
Osmotic concentration of salt solutions in a countercurrent multiplier system 27(1978)137

N. Chlubek and E. Drioli
A study on thermal driven membrane processes in water purification 46(1983)179

Chmiel H.

R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel
Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins 79(1990)217

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept 108(1996)159

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 2: Improved feed water pretreatment 110(1997)65

Choji Noriko

N. Choji, W. Pusch, M. Satoh, T.-M. Tak and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 53(1985)347

N. Choji and M. Karasawa
Dyestuff diffusion from gas phase into HPET film 62(1987)55

Chong P. Y.

T. Hodgkiess, A. Maciver and P.Y. Chong
Galvanic studies related to the use in desalination plant of corrosion-resistant materials 66(1987)147

Chou James C. S.

J.C.S. Chou and A.M. Rowe, Jr.
Enthalpies of aqueous sodium chloride solutions from 32 to 350°F 6(1969)105

Chowdhury G.

K. Lang, S. Sourirajan, T. Matsuura and G. Chowdhury
A study on the preparation of polyvinyl alcohol thin-film composite membranes and reverse osmosis testing 104(1996)185

Christova-Boal D.

D. Christova-Boal, R.E. Eden and S. McFarlane
An investigation into greywater reuse for urban residential properties 106(1996)391

Chu Chieh

P.A. Iyer and Chieh Chu
Submerged combustion 9(1971)19

V.R. Ginde and C. Chu
An apparatus for desalination with ion-exchange resins 10(1972)309

Chu H. C.

W.G. Light, H.C. Chu and C.N. Tran
Reverse osmosis TFC magnum elements. for chlorinated/dechlorinated feedwater processing 64(1987)411

H.C. Chu, J.S. Campbell and W.G. Light
High-temperature reverse osmosis membrane element 70(1988)65

Chu Minlin

Kwanglung Lin, Minlin Chu and Muchang Shieh
Treatment of uranium containing effluents with reverse osmosis process 61(1987)125

Chin Ridge

Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh
Treatment of uranium effluent by reverse osmosis membrane 71(1989)35

Chukhin V. A.

V.N. Smagin, V.A. Chukhin and V.A. Kharchuck
Technological account of electrodialysis apparatus for concentration 46(1983)283

Chun U. H.

U.H. Chun and P.L. Rogers
Development of an ethanol/sorbitol process using a ceramic membrane cell recycle bioreactor 70(1988)353

Ciccone E.

S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito
Technical and economical evaluation of an MSF solar energy powered desalination plant 31(1979)443

Cieploch B.

G. Wisniewska, B. Cieploch and T. Winnicki
Laboratory investigation on electrodialytic desalination of brackish water 46(1983)275

Cigna R.

L. Giuliani and R. Cigna
Corrosion problems of copper alloys in desalination plants 22(1977)379

R. Cigna, A. De Maio, L. Giuliani and G. Gusmano
Acid cleaning and passivation of power plant condensers and desalination plants 38(1981)269

R. Cigna, L. Giuliani and G. Gusmano
Continuous corrosion monitoring in desalination plants 55(1985)219

Ciminale A.

A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci
Desalination plant of 3.8 mgpd at Gela (Sicily) 19(1976)317

Cinanni V.

V. Cinanni, I.A. Gough and A.J. Sciuto
A water treatment and recovery plant for highly acidic heavy metal laden effluents 106(1996)145

Ciuff C. B.

C.B. Ciuff
Water harvesting systems in arid lands 72(1989)149

Clark M. M.

M.M. Clark and K.S. Heneghan
Ultrafiltration of lake water for potable water production 80(1991)243

Y. Lee and M.M. Clark
A numerical model of steady-state permeate flux during cross-flow ultrafiltration 109(1997)241

Clark R.L.

R.A. Langley, Jr. and R.L. Clark
The sodium-cooled fast-breeder reactor as a heat source for desalination plants 5 suppl.(1969)351

Clarke J.C.

M.J. Burley and J.C. Clarke
Desalination in conjunction with conventional water supplies 5 suppl.(1969)617

Clarke S.

A.J. Emmett, S. Clarke and S. Howles
Conjunctive wetland treatment/aquifer storage and recovery at Regent Gardens residential development, Northfield, South Australia 106(1996)407

Clarke Jr J T.

W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander
Recent developments in electrodialysis at elevated temperatures 4(1968)236

Clausen N. -E.

N.-E. Clausen
Development of a plate evaporator/condenser for the mechanical vapour compression process 81(1991)399

Clayer A.

D. Callies, A. Clayer and J. Orssaud
Possibilities of the osmosis process (in French) 4(1968)55

Clelland D. W.

D.W. Clelland and J.M. Stewart
Optimisation and design of large scale multi stage flash distillation plants 1(1966)61

K.D.B. Johnson and D.W. Clelland
Mobile and floating flash distillation plants 2(1967)170

D.W. Clelland
Large scale dual purpose plant for water/power production 2(1967)215

Clément R.

J. Néel, P. Aptel and R. Clément
Basic aspects of pervaporation 53(1985)297

Clifton M. J.

M.J. Clifton and R.T. Fowler
Treatment by reserve osmosis of certain solutions containing two solutes, one organic and one inorganic 34(1980)25

Clobus A.

J.A.M. Meijer, J.A. Wesselingh, A. Clobus and M.L.A. Goossens
Impacts against the wall of a scaled-up fluidized bed 58(1986)1

Cluff C. B.

C.B. Cluff
Slow sand/nanofiltration treatment for secondary treated wastewater 88(1992)53

Cobb G.D.

G.D. Cobb
New directions in the United States Federal desalting program 25(1978)325

Cobuchi Y.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Cocco G.

C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: theoretical calculation of the osmotic coefficient 10(1972)263

Cochran Jr. H. D.

J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona
Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes 5(1968)359

Cohen A.

A. Cohen, M. Zangen, M. Koenigsbuch and J.M.E. Goldschmidt
Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater 41(1982)215

Cohen D. W.

C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen
The use of speciation and X-ray techniques for determining pretreatment steps for desalination 66(1987)327

Cohen J.

O. Kedem, J. Cohen, A. Warshawsky and N. Kahana
EDS: sealed cell electrodialysis 46(1983)291

Cohen de Lara M.

R. Douvry and M. Cohen de Lara
Study of fluid mechanics and heat transfer in multiflash desalination plants (in French) 2(1967)345

Coillet D. W.

D.W. Coillet and J.E. Cruver
Conjunctive use of reverse osmosis and thermally regenerated ion-exchange 23(1977)575

D.W. Coillet and R.M. Dunlap
The eighth voyage aboard Al Hammal: A study of the transport of a large tubular iceberg from the Antarctic to the Arabian Peninsula 29(1979)47

D. W. Coillet
An integrated ice-water system 29(1979)191

Colbourne J.S.

A.J. Rachwal, J. Khow, J.S. Colbourne and J. O'Donnell
Water treatment for public supply in the 1990's — A role for membrane technology? 97(1994)427

Colella C.

M. Pansini and C. Colella
Dynamic data on lead uptake from water by chabazite 78(1990)287

M. Pansini, C. Colella and M. de'Gennaro
Chromium removal from water by ion exchange using zeolite 83(1991)145

Coleman A.J.

E.A. Downing, A.J. Coleman and T.H. Bagwell, Jr.
US Army reverse osmosis membrane research programs 99(1994)383

T.H. Bagwell, Jr., B. Shalewitz and A. Coleman
The Army water supply program: An overview 99(1994)409

Coleman A.K.

A.K. Coleman
Optimization of a single effect, multi-stage flash distillation desalination system 9(1971)315

Colenutt B. A.

N.A. Latif, F.M. Al-Awadi and B.A. Colenutt
Trihalomethanes (THMs) formation in multi-stage flash (MSF) distillation plants 74(1989)205

Coliva G.

R. Zannoni, A. de Maio, G. Odone and G. Coliva
Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants 45(1983)337

I. Resini, G. Coliva, A. de Maio and R. Lucenti
4x6 MIGPD plus lxl MIGPD (acid) plants. Two years' operation results 54(1985)377

Collares Pereira see M. Pereira

P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato
Wastewater detoxification of organic and inorganic toxic compounds with solar collectors 108(1996)213

Collins R.

B.M. Watson, C.D. Hornburg and R. Collins
Blending and post-treatment protocols for SDWA compliance — Hollywood (FL) water plant 102(1995)1

Colten S.L.

S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis 11(1972)31

Combaz P.

P. Combaz, J.C. Deronzier and F. Lauro
Application of low-temperature waste heat distillation in nuclear plants (in French) 31(1979)207

Compagnoni P.

A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci
Desalination plant of 3.8 mgpd at Gela (Sicily) 19(1976)317

Comstock D. L.

D.L. Comstock
Desal-5 membrane for water softening 76(1989)61

Concari S.

A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi
ENEL experience of seawater desalination plants 108(1996)345

Condon J.

C.J. Martin, E.O. Kartinen, Jr. and J. Condon
Examination of processes for multiple contaminant removal from groundwater 102(1995)35

Cong Lanbo

Wu Qiulin, Cong Lanbo and Liu Qingshang
The mechanism of membrane phase separation 62(1987)69

Conlon W. J.

W.J. Conlon
Pilot field test data for prototype ultra low pressure reverse osmosis elements 56(1985)203

W.J. Conlon
Historic development of the concentrate regulations 78(1990)11

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

W.J. Conlon, C.D. Hornburg, B.M. Watson and C.A. Kiefer
Membrane softening: The concept and its application to municipal water supply 78(1990)157

W.J. Conlon, F.A. Blandon and J. Moody
Cost comparison of treatment alternatives for the removal of nitrates and DBCP from Southern California groundwater 103(1995)89

Consiglio G.

G. Consiglio and M. Creton
Desalination plant program to solve shortage of water in the southern Italian Islands (Sicily) 45(1983)209

Converti A.

C. Sommariva, A. Converti and M. Del Borghi
Increase in phosphate removal from wastewater by alternating aerobic and anaerobic conditions 108(1996)255

Cooke W. P.

W.P. Cooke
Hollow fiber permeators in industrial waste stream separations 7(1969)31

Cooper K. G.

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
25 years experience in the development and application of scale inhibitors 31(1979)243

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
The threshold scale inhibition phenomenon 31(1979)257

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
Factors affecting the brine scaling potential in MSF plants 38(1981)175

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
A model for the fouling of MSF plants based on data from operating units 47(1983)37

K.G. Cooper, L.G. Hanlon and R.E. Talbot
An operating philosophy to optimize the output, plant life and economy of MSF plants operating at high temperatures 54(1985)291

Cooper R. C.

K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson
City of San Diego potable reuse of reclaimed water: Final results 88(1992)201

Cope A.F.G.

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demineralisation of brackish waters 12(1973)217

Coplan M. J.

A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
Hollow fiber composite reverse osmosis membrane 20(1977)87

R.B. Davis, R.D. Burchesky and M J. Coplan
Hollow fiber composite membrane modules for reverse osmosis 22(1977)221

Coriou H.

S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Stress corrosion of austenitic stainless steels in chloride environments (in French) 3(1967)118

G. Boisde, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Etude du comportement de divers matériaux dans l'eau de mer jusqu'à 150°C 5 suppl.(1969)895

Cornman R. E.

F.F. Antunes, R.E. Cornman and R.J. Hartkopf
Centrifugal pumps for desalination 38(1981)109

Correnti S.J.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

Cort R. P.

B. Sheikh, R.S. Jaques and R.P. Cort
Reuse of tertiary municipal wastewater effluent for irrigation of raw-eaten food crops: A five year field study 67(1987)245

Cortés J.

J. Cortés and F. Cantera
Basic parameters of design on a VC-VTE process with high ER 55(1985)69

Cortese B.

E. Drioli and B. Cortese
Ultrafiltration processes for pollution control and chemical reuse in the tanning industry 34(1980)131

Costa F.

F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra
Estudio de viabilidad de una central nuclear de doblo uso para la zona Catalana 5 suppl.(1969)261

Costa M. L.

M.L. Costa and J.M. Dickson
Modelling of modules and systems in reverse osmosis. Part I: Theoretical system design model development 80(1991)251

J.M. Dickson, J. Spencer and M.L. Costa
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part I: Theoretical model development 89(1992)63

Costa P.

P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
Using a homogeneous model in simulation of sea water desalination condenser 65(1987)123

Costes G.

I.M.R. Jamjoom and G. Costes
Combined Yanbu and Medina power and desalination plant 30(1979)283

Coury G.

G. Coury, J.C. Deronzier and J. Huyghe
Study of the flash mechanism in complex geometry (in French) 12(1973)295

Cowan J. A.

R.C. Squires, J.A.C. Cowan and F.C. Wood
The desalination of coalmine drainage water by reverse osmosis 47(1983)343

Cowin M. W.

A.C. Molseed, J.R. Hunt and M.W. Cowin
Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods 61(1987)249

Cox B.

P. Maldague, C. Descamps, W. Debay, A. Paquet, W. Bongard and B. Cox
Production combinée d'électricité et d'eau dessalée a l'aide de réacteurs Vulcain et d'unités LTV: Aspects technico-économiques d'installations de moyenne puissance 5 suppl.(1969)463

B. Cox
A review of freeze-desalting processes and their prospects 31(1979)413

B. Cox
A study of combined acid/additive seawater feed treatment 51(1984)149

Cox J. M.

G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson
Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse 47(1983)305

Crabbe D. C. M.

E.W. Johansen, Jr. and D.C.M. Crabbe
Design parameters and operation of small and medium size municipal reverse osmosis in North America 20(1977)53

Craig Jr. J. C.

L.C. Dickey and J.C. Craig, Jr.
Determination of a liquid state from that of liquid solution coupled to it by a common vapor phase 78(1990)397

Credali L.

L. Credali, A. Chiolle and P. Parrini
New polymer materials for reverse osmosis membranes 14(1974)137

Creemers C.

D. Van Gauwbergen, J. Baeyens and C. Creemers
Modeling osmotic pressures for aqueous solutions for 2-1 and 2-2 electrolytes 109(1997)57

Crerar A. J.

A.J. Crerar, R.E. Low and C.L. Pritchard
Wave powered desalination 67(1987)127

A.J. Crerar and C.L. Pritchard
Wavepowered desalination: Experimental and mathematical modelling 81(1991)391

Creton M.

G. Consiglio and M. Creton
Desalination plant program to solve shortage of water in the southern Italian Islands (Sicily) 45(1983)209

Creusen R. J. M.

H.F. Van Wijk, A.E. Jansen and R.J.M. Creusen
An optimized hyperfiltration process for concentrating aqueous solutions of high osmotic pressure 51(1984)103

Crijns M. J.

A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
Need and feasibility of nuclear desalination for low cost potable water production 81(1991)505

J. Kupitz and M.J. Crijns
Perspectives of nuclear energy for seawater desalination 99(1994)299

Crispino E.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

Croix J.

J. Croix and F. Lauro
Improved performance of heat transfer surfaces in desalination (in French) 31(1979)35

Cross B. P.

F.M. Graber, H.K. Lonsdale, C.E. Milstead and B.P. Cross
Boron rejection by cellulose acetate reverse osmosis membranes 7(1970)249

Crozes G.

G. Crozes, B. Capdeville and A. Moro
Gel permeation: A means to characterize wastewater and residual dissolved organic matter in effluents 106(1996)213

Crozier D.S.

S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
Sea water desalination using glass hollow fibre membranes 14(1974)209

Crul B. A.

B.A. Crul and P.R. Bom
New aspects in solar powered seawater distillation 55(1985)55

Cruver J. E.

C.D. Hornburg and J.E. Cruver
Dual purpose power/water plants utilizing both distillation and reverse osmosis 20(1977)27

D.W. Coillet and J.E. Cruver
Conjunctive use of reverse osmosis and thermally regenerated ion-exchange 23(1977)575

J.E. Cruver and M. Jhawar
New improvements in ultraviolet sterilization of desalted and reuse water 32(1980)365

Culotta S.

E. Cardona, S. Culotta, L. Mangiaracina and R. Terranova
Multi-flash desalination and cogeneration to solve the water supply problems in southeastern Sicily 106(1996)121

Cummings C. M.

K.A. Klinko, W.G. Light and C.M. Cummings
Factors influencing optimum seawater reverse osmosis system designs 54(1985)3

Cunningham J.

W.T. Hanbury, W.S. McCartney, J. Cunningham and T. Hodgkiess
Twelve years of postgraduate education in desalination 30(1979)449

J. Cunningham and A. Holmes
The effect of air on condensation on a roped tube 38(1981)65

J. Cunningham and M. Bahjernejad
The effect of vapour shear and condensate drainage in condenses using roped tubes 45(1983)135

Curran H. M.

H.M. Curran
Water desalination by indirect freezing 7(1970)273

D.I.G.A.A.S. D.I.G.A.A.S.

Technical Staff of D.I.G.A.A.S.
Desalination experiences and its prospects in Mexico 23(1977)383

D'Alessandro S.

S. D'Alessandro and A. Tantillo
Electrostatic phenomena in ion exchange membranes 9(1971)225

D'Angelo G.

M. Bertuzzi, G. D'Angelo and E. Moretti
Experience with 4 x 5 Migd MSF plant in Qatar: Report on construction material performances 45(1983)175

L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
A desalination process through sweeping gas membrane distillation 64(1987)245

d'Orival M.

M. d'Orival
Characteristics of dual-purpose plants producing desalted water and electricity from the same thermal energy source (in French) 4(1968)66

Dabbagh T. A.

T.A. Dabbagh and A. Al-Saqabi
The increasing demand for desalination 73(1989)3

Dabby S. S.

K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby
Development of new type thermally regenerable ion exchange plant 22(1977)505

Dabiri A. E.

W.D. Childs and A.E. Dabiri
Desalination cost savings of Vari-ROTM pumping technology 87(1992)109

W.D. Childs and A.E. Dabiri
Increased water production using a heat recovery engine for "Direct Drive" VARI-ROTM Pumping 96(1994)81

W.D. Childs and A.E. Dabiri
VARI-RO™ low energy desalting for the San Diego region 103(1995)49

Dagan G.

A. Gollan and G. Dagan
Effect of porous backing substrates on membrane flux in reverse osmosis systems 8(1970)261

Daghthem A. M.

I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem
Optimum design for a hybrid desalting plant 76(1989)177

Dahdah J.

S. Akashah, M. Abdel-Jawad, M.M. Abdelhalim and J. Dahdah
Cost and economic analysis of Doha reverse osmosis plant (Kuwait) 64(1987)65

Dahm W.

R. Rautenbach and W. Dahm
Design and optimization of spiral-wound and hollow fiber RO-modules 65(1987)259

Dai Haiping

Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang
Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis 107(1996)217

Dai L.

Qixing Zhou, Limei Dai and R.W. Bell
An integrated plan for town-enterprise wastewater reuse and wetland strategy: A case study 106(1996)439

Dal-Cin M.M.

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson
Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent 101(1995)155

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy
Membrane performance with plug screw feeder pressate: operating conditions and membrane properties 105(1996)229

Dalas E.

E. Dalas and P.G. Koutsoukos
Calcium carbonate scale formation and prevention in a flow-through system at various temperatures 78(1990)403

Dall'omo G.

G. Gusmano and G. Dall'Omo
Quality control problems in copper alloy tubes manufacturing 38(1981)281

Dalton G. L.

G.L. Dalton, H.S. Pienaar and R.D. Sanderson
Supplemental polymer coatings in reverse osmosis membrane improvement and regeneration 24(1978)235

Dalton J. H.

G. Ali, J.H. Dalton, P.D. Judges and C. Tao
Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1 76(1989)27

Daltrophe N. C.

Y. Egozy, E. Korngold and N.C. Daltrophe
Waste water recycling by ion-exchange: I. Complete desalination 33(1980)123

Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun
Waste water recycling by ion-exchange: II. Partial desalination 33(1980)333

Daly J.A.

G. Belfort and J.A. Daly
Optimization of an electrodialysis plant 8(1970)153

Damodaram A.

B. Makkawi-Ahmed and A. Damodaram
An approach to improving the effectiveness of a large-scale complex utility organization 93(1993)365

Damy G.

G. Damy and J. Marvaldi
Some investigations on the possibility of using ocean thermal gradient (OTG) for seawater desalination 67(1987)197

Danial K.H.

A.H. Al-Anbuky and K.H. Danial
A flexible data acquisition and monitoring system 92(1993)271

Daniel L.

J.M. Rovel and L. Daniel
Start-up of RO modules after a very long storage time: A case history 65(1987)373

Danielson R. E.

K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson
City of San Diego potable reuse of reclaimed water: Final results 88(1992)201

Dannish S.

A. Khater, S. Dannish and M. Al-Ansari
Privatization as a financing alternative for desalination plants in Bahrain 97(1994)281

Darton E. G.

E.G. Darton and A.G. Turner
Operating experiences in a sea water reverse osmosis plant in Gibraltar. (1987-1990) 82(1991)51

K.J. McGlone, E.G. Darton, D.J. Langdown and A. Rahman
Factors affecting the design of a pre-treatment system for a 1,200 m3/d RO plant in Riyadh, Saudia Arabia with an iron-rich, 60oC feed water 96(1994)397

L.Y. Dudley and E.G. Darton
Membrane autopsy — A case study 105(1996)135

L.Y. Dudley and E.G. Darton
Pretreatment procedures to control biogrowth and scale formation in membrane systems 110(1997)11

Darwish B. A. Q.

B.A.Q. Darwish, M. Abdel-Jawad and G.S. Aly
On the standardization of performance data for reverse osmosis desalination plants 74(1989)125

S.E. Ebrahim and B.A. Darwish
Scaling potential of Kuwait seawater for reverse osmosis desalination 74(1989)141

B.A.Q. Darwish, G.S. Aly, H.A. Al-Rqobah and M. Abdel-Jawad
Predictability of membrane performance of reverse osmosis systems for seawater desalination 75(1989)55

Darwish M.A.

M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky
Comparison between the use of a baffle and a wire mesh in flashing units 19(1976)83

M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky
Flashing in desalination units 19(1976)93

A.A. Rizk, M.A. Darwish and S.M. El-Haggar
Flashing flow of water in conduits between chambers in MSF units 20(1977)299

M.A. Darwish
Two-phase flashing flow in conduits 26(1978)285

M.A. Darwish, K.A. Fathalah and S.E. Aly
Comparative study between vapor compression and multi effect boiling desalination systems 45(1983)77

M.A. Darwish, S.E. Aly and K.A. Fathalah
Comparative study between conventional and vapor compression multi-effect desalination systems 49(1984)153

M.A. Darwish and A.A. El-Hadik
The multi-effect boiling desalting system and its comparison with the multi-stage flash system 60(1986)251

M.A. Darwish
Critical comparison between energy consumption in large capacity reverse osmosis (RO) and multistage flash (MSF) seawater desalting plants 63(1987)143

M.A. Darwish and N.M. Al-Najem
Energy consumptions and costs of different desalting systems 64(1987)83

M.A. Darwish
On the thermodynamics of dual purpose power desalting plants. Part I. Using steam turbines 64(1987)151

M.A. Darwish, A. Elhadek and A. Dayoub
On the thermodynamics of dual purpose power desalting plants. Part II. Using gas turbines 64(1987)169

K. Fathalah, S.E. Aly, M. Darwish and A. Radhwan
A theoretical study of enhanced condensation over horizontal fluted tubes 65(1987)25

M.A. Darwish
Cogeneration power-desalination plants 69(1988)27

M.A. Darwish
Thermal analysis of vapor compression desalination system 69(1988)275

A.M.R. Al-Marafie and M.A. Darwish
Water production in Kuwait - Its management and economics 71(1989) 45

M.A. Darwish, M. Abdel-Jawad and G.S. Aly
Technical and economical comparison between large capacity multi stage flash and reverse osmosis desalting plants 72(1989)367

M.A. Darwish and M. Abdel-Jawad
Technical aspects of reducing desalting water costs in distillation methods 72(1989)381

M.A. Darwish, N.M. Al-Najem, T. Froment and J. de Gunzbourg
The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures 74(1989)277

M.A. Darwish, M. Abdel-Jawad and L.J. Hauge
A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems 75(1989)25

M. Abdel-Jawad and M.A. Darwish
Simplified analysis of transport in reverse osmosis (RO) hollow fiber (HF) membranes 75(1989)97

M.A. Darwish, M. Abdel-Jawad and G.S. Aly
Technical and economical comparison between large capacity MSF and RO desalting plants 76(1989)281

M.A. Darwish and M. Abdel-Jawad
Technical aspects of reducing desalting water cost by distillation methods 76(1989)305

M.A. Darwish, M. Abdel Jawad and G.S. Aly
Comparison between small capacity mechanical vapor compression (MVC) and reverse osmosis (RO) desalting plants 78(1990)313

M.S. Al-Ahmad and M.A. Darwish
Second law analysis of multieffect and multistage flash desalination plants 81(1991)449

B.G. Jabboury and M.A. Darwish
An interactive approach to combine desalting and power plants analysis 84(1991)106

M.A. Darwish
Thermal analysis of multi-stage flash desalting systems 85(1991)59

M.A. Darwish, N.M. Al-Najem and M.S. Al-Ahmad
Second-law analysis of recirculating multi-stage flash desalting system 89(1993)289

M.A. Younis, M.A. Darwish and F. Juwayhel
Experimental and theoretical study of a humidification-dehumidification desalting system 94(1993)11

O. Al-Hawaj and M.A. Darwish
Performance characteristics of a multi effect solar pond desalting system in an arid environment 96(1994)3

O. Al-Hawaj and M.A. Darwish
A solar pond assisted multi-effect desalting system 99(1994)119

M.A. Darwish, M.M. El-Rafaee and M. Abdel-Jawad
Developments in the multi-stage desalting system 100(1995)35

M.A. Darwish, F.A. Yousef and N.M. Al-Najem
Energy consumptions and costs with a multi-stage flashing (MSF) desalting system 109(1997)285

N.M. Al-Najem, M.A. Darwish and F.A. Youssef
Thermovapor compression desalters: Energy and availability — Analysis of single- and multi-effect systems 110(1997)223

Dasare B. D.

B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy
Demineralization with ion-exchange materials 3(1967)183

M.N. Prajapati, P.M. Gaur and B.D. Dasare
Water-softening by continuous counter-current ion-exchange single column technique 48(1983)281

M.N. Prajapati, P.M. Gaur and B.D. Dasare
Brackish water desalination by a continuous counter-current ion exchange technique 52(1985)317

Datar D. S.

S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar
Development of humidification-dehumidification technique for water desalination in arid zones of India 5(1968)55

S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar
Scope and development of solar stills for water desalination in India 5(1968)64

Datta N.

N. Datta and B.K. Guha
Mass transfer limitations in a membrane module 89(1993)343

Datta R. L.

S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar
Development of humidification-dehumidification technique for water desalination in arid zones of India 5(1968)55

S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar
Scope and development of solar stills for water desalination in India 5(1968)64

Daufin G.

B. Chaufer, M. Rabiller-Baudry, L. Guihard and G. Daufin
Retention of ions in nanofiltration at various ionic strength 104(1996)37

Davarsky K.

V. Mavrov, I. Petrova, K. Davarsky and S. Manolov
Studies of the UF-25-PAN membrane characteristics in the complexing-UF process of Cu, Ni, and Co with polyvinylalcohol 83(1991)289

Dave A.M.

S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta
Comparative evaluation of industrial membranes: Correlation between transport and operational parameters 94(1993)1

Dave N. J.

W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan
Desalination of brackish water by electrodialysis 42(1982)97

P.K. Narayanan, W.P. Harkare, S.K. Adhikary, N.J. Dave, D.K. Chauhan and K.P. Govindan
Performance of an electrodialysis desalination plant in rural area 54(1985)145

S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
Desalination of brackish water of higher salinity by electrodialysis 84(1991)189

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

Davenport W.F.

W.F. Davenport
Desalination? Decision making 99(1994)245

David D. C.

D.C. David
Geophysical aspects of a large iceberg tow 29(1979)135

David R.

O.K. Buros and R.D.G. Pyne
Extending water supplies in water short areas 98(1994)437

Davies C. J.

A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley
The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping 67(1987)455

Davis J. A.

R.E. Kravath and J.A. Davis
Desalination of sea water by direct osmosis 16(1975)151

Davis R. B.

A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
Hollow fiber composite reverse osmosis membrane 20(1977)87

R.B. Davis, R.D. Burchesky and M J. Coplan
Hollow fiber composite membrane modules for reverse osmosis 22(1977)221

Davis W. K.

W.K. Davis, L. Galstaun and C. Sharpf
Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California 2(1967)227

Davison R. R.

R.R. Davison, W.B. Harris and W.H. Smith, Jr.
Solvent extraction desalination pilot plant 3(1967)17

Dawood U.

S. Abdul-Majid and U. Dawood
Measurement of localized metal removal in pipes by gamma-ray back scattering method 75(1989)185

S. Abdul-Majid and U. Dawood
Neutron-capture gamma-ray technique for scale identification inside pipes 75(1989)199

Dawson R.W.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

Day J. M.

J.M. Day
Icebergs used and theory with suggestions for the future 29(1979)25

Daye M.A.

L. Awerbuch and M.A. Daye
Durability of concrete structures in the hostile service environment of desalination plants 97(1994)221

Dayem M. A.

M. Hares and M.A. Dayem
Difficulties encountered in executing and running of waste water plants in developing countries 30(1979)175

Dayoub A.

M.A. Darwish, A. Elhadek and A. Dayoub
On the thermodynamics of dual purpose power desalting plants. Part II. Using gas turbines 64(1987)169

de Boer R.

R. de Boer and J. Hiddink
Membrane processes in the dairy industry. State of the art 35(1980)169

R. de Boer and P.F.C. Nooy
Concentration of raw whole milk by reverse osmosis and its influence on fat globules 35(1980)201

D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn
Preparation and properties of a composite charged membrane 41(1982)249

de Cachard M

P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger
Greenhouses with solar desalination (in French) 31(1979)429

de Cosío I. G.

R. Manjarrez and I.G. de Cosío
Desalination of agricultural drains in Mexicali, B.C. (in Spanish) 19(1976)499

de' Gennaro M.

M. Pansini, C. Colella and M. de'Gennaro
Chromium removal from water by ion exchange using zeolite 83(1991)145

de Gerloni M.

M. Reali, M. de Gerloni and A. Sampaolo
Submarine and underground reverse osmosiS schemes for energy-efficient seawater desalination 109(1997)269

de Gier R. F. M.

P.J. de Moel, R.F.M. de Gier and G. Onderdelinden
Design of the 50,000 m3/d treatment plants for Qasim, S.A., desalination of brackish water at 99% recovery 55(1985)343

de Graauw J.

M.A.A. Soleman, J. de Graauw and W. van Putten
Large seawater reverse osmosis plant: Design considerations 46(1983)163

de Gunzbourg J.

J. de Gunzbourg and T. Froment
Construction of a solar desalination plant (40cum/day) for a French Caribbean Island 67(1987)53

M.A. Darwish, N.M. Al-Najem, T. Froment and J. de Gunzbourg
The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures 74(1989)277

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

de Körösy F.

D. Kertész, F. de Körösy and E. Zeigerson
Advances in the electrochemistry of permselective membranes 2(1967)161

F. de Körösy and E. Zeigerson
Interaction of permselective membranes and their counter-ions 5(1968)185

E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch
Fouling of anion-selective membranes in electrodialysis 8(1970)195

E. Korngold and F. de Körösy
Experimental reverse osmosis apparatus for membranes in the external surface of ceramic tubes 11(1972)125

F. de Körösy
An amphoteric ion-permselective membrane 16(1975)85

De Maio A.

A. De Maio, F. Fioravanti and G. Odone
The role of consultant engineers on personnel training and desalination plant operation 30(1979)439

F. Fioravanti, D. Falleni, G. Odone and A. De Maio
Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia 31(1979)155

A. De Maio, G. Odone, E. Palmisano and R. Zannoni
An advanced method for sea water chemical treatment in MSFD plants 31(1979)321

R. Cigna, A. De Maio, L. Giuliani and G. Gusmano
Acid cleaning and passivation of power plant condensers and desalination plants 38(1981)269

A. De Maio, F. Fioravanti and G. Odone
A new idea for training operators 39(1981)483

A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
Results of four years of operation at high temperature (150°C) of Bari's desalination plant 45(1983)197

R. Zannoni, A. de Maio, G. Odone and G. Coliva
Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants 45(1983)337

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

I. Resini, G. Coliva, A. de Maio and R. Lucenti
4x6 MIGPD plus lxl MIGPD (acid) plants. Two years' operation results 54(1985)377

de Moel P. J.

J.C. van Dijk, P.J. de Moel and H.A. van den Berkmortel
Optimizing design and cost of seawater reverse osmosis systems 52(1984)57

P.J. de Moel, R.F.M. de Gier and G. Onderdelinden
Design of the 50,000 m3/d treatment plants for Qasim, S.A., desalination of brackish water at 99% recovery 55(1985)343

De Petro M.

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

de Pinho M. N.

M.N. de Pinho
Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation 68(1988)211

M.D. Afonso and M.N. De Pinho
Ultrafiltration of bleach effluents in cellulose production 79(1990)115

M.D. Afonso and M.N. De Pinho
Membrane separation processes in the pulp and paper industry 85(1991)53

de Winter D.

M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner
New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration 105(1996)57

De Witte J.-P.

J.-P. De Witte
Surface water potabilisation by means of a novel nanofiltration element 108(1996)153

Dean D.W.

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Dean K. K.

K.K. Dean
The effect of the use of reclaimed water and high pressure effluent on plant operations at Hyperion Treatment Plant 88(1992)331

Deans G.

M. Masson and G. Deans
Membrane filtration and reverse osmosis purification of sewage: Secondary effluent for re-use at Eraring Power Station 106(1996)11

Deans J.

H.C. Simpson, G.C. Beggs, J. Deans and J. Nakamura
Growth of ice crystals 14(1974)341

Debay W.

P. Maldague, C. Descamps, W. Debay, A. Paquet, W. Bongard and B. Cox
Production combinée d'électricité et d'eau dessalée a l'aide de réacteurs Vulcain et d'unités LTV: Aspects technico-économiques d'installations de moyenne puissance 5 suppl.(1969)463

Debkowska Z.

M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny
Biomembrane wastewater treatment by activated sludge method 107(1996)83

Dehan R. S.

R.S. Dehan
Current regulatory concerns related to the disposal of RO concentrates in Florida 78(1990)17

Dejak C.

C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: theoretical calculation of the osmotic coefficient 10(1972)263

Dejmek P.

P. Dejmek
Note on the paper "On the comparison of reverse osmosis membrane performance" 17(1975)395, Err. 16(1975)169

P. Dejmek and H. Engwall
System options and costs in dairy ultrafiltration 35(1980)397

P. Dejmek
Predicting flux in UF of milk 53(1985)135

Del Bene J.V.

J.V. Del Bene, G. Jirka and J. Largier
Ocean brine disposal 97(1994)365

Del Borghi M.

C. Sommariva, A. Converti and M. Del Borghi
Increase in phosphate removal from wastewater by alternating aerobic and anaerobic conditions 108(1996)255

del Castillo L. F.

L.F. del Castillo
Thermodynamic approach to reverse osmosis and the low pressure membrane 19(1976)211

R. Flores, A. Flores and L.F. del Castillo
Parameters influencing the characterization of C.A. membrane and a new rejection mechanism 19(1976)221

J.M. Guerrero and L.F. del Castillo
Deformed reverse osmosis membrane and low pressure operation 26(1978)141

Del Re G.

V. Brandani, G. Del Re and G. di Giacomo
A new model for predicting thermodynamic properties of sea salt solutions 56(1985)299

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature 65(1987)101

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Activity coefficients in aqueous multicomponent electrolyte solutions from ambient to 200°C 65(1987)113

G. Di Giacomo, V. Brandani and G. Del Re
Evaporation of olive oil mill vegetation waters 81(1991)249

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of sulfate salts 89(1992)185

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of chloride salts 91(1993)21

G. Del Re, F. Fantauzzi, G. Di Giacomo and V. Mucciante
Enthalpy of dilution of aqueous CaCI2 solutions at 308.15 K 107(1996)199

G. Di Giacomo, G. Del Re and D. Spera
Milk whey treatment with recovery of valuable products 108(1996)273

Del Rosario E. J.

E.J. Del Rosario and F.D. Duldulao
Preparation and characterization of polysulfone ultrafiltration membranes for concentrating waste tuna broth 70(1988)293

del Valle J. F.

J.A. Septién and J.F. del Valle
Study of polyurethane foam for tubular membrane support (in Spanish) 19(1976)405

DeLeeuw J.

J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model 99(1994)1

Delitsky M. L.

A.L. Smith, D.P. Logan, H.E. Nehus and M.L. Delitsky
Elimination of mineral acid dosing to control water formed scale in brackish water RO systems 54(1985)277

Deluca R.

R.A. Shaw, R. Deluca and W.N. Gill
Reverse osmosis: Increased productivity by reduction of concentration polarization in laminar flow reverse osmosis using intermediate non-rejecting membrane sections 11(1972)189

Delve M.H.

J.R. Grover, R. Gayler and M.H. Delve
Development and field trial evaluation of a new reverse osmosis module system 14(1974)93

Delyannis A.

E. Delyannis and A. Delyannis
Solar applications in desalting 23(1977)541

A. Delyannis and E. Delyannis
Recent solar distillation developments 45(1983)361

A.A. Delyannis and E. Delyannis
Solar desalination 50(1984)71

E.E. Delyannis and A. Delyannis
Economic of solar stills 52(1985)167

Delyannis E. E.

E. Delyannis and A. Delyannis
Solar applications in desalting 23(1977)541

A. Delyannis and E. Delyannis
Recent solar distillation developments 45(1983)361

A.A. Delyannis and E. Delyannis
Solar desalination 50(1984)71

E.E. Delyannis and A. Delyannis
Economic of solar stills 52(1985)167

E.-E. Delyannis
Status of solar assisted desalination: A review 67(1987)3

E.-E. Delyannis and V. Belessiotis
Solar application in desalination: The Greek Islands experiment 100(1995)27

V. Belessiotis, K. Voropoulos and E. Delyannis
Experimental and theoretical method for the determination of the daily output of a solar still: input-output method 100(1995)99

V. Belessiotis and E. Delyannis
Solar energy: Some proposals for future development and application to desalination 105(1996)151

K. Voropoulos, E. Delyannis and V. Belessiotis
Thermo-hydraulic simulation of a solar distillation system under pseudo steady-state conditions 107(1996)45

DeMarle D. J.

D.J. DeMarle
Ice cooled ocean thermal energy conversion plants 29(1979)153

Demkin V. I.

V.I. Demkin, Y.A. Tubashov, V.I. Panteleev and Y.V. Karlin
Cleaning low mineral water by electrodialysis 64(1987)367

Demolins E.

J.C. Bernard and E. Demolins
Scale control additive — Practical experiences in multistage flash plants 54(1985)301

Denis P.

P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger
Greenhouses with solar desalination (in French) 31(1979)429

Denton W.H.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Derbyshev A. S.

A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko
Some results of the investigations on corrosion protection of desalination plant equipment 44(1983)233

Deronzier J. C.

G. Coury, J.C. Deronzier and J. Huyghe
Study of the flash mechanism in complex geometry (in French) 12(1973)295

J.C. Deronzier
Multiple effect distillation with horizontal tube evaporators (in French) 31(1979)115

P. Combaz, J.C. Deronzier and F. Lauro
Application of low-temperature waste heat distillation in nuclear plants (in French) 31(1979)207

J.C. Deronzier, F. Lauro and R. Ployart
Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller 39(1981)117

Deryde X.

D.A. White, R. Labayru, H.R. Obermoller and X. Deryde
The application of inorganic membranes to electrodialysis processes 84(1991)177

Desai A. M.

R.G. Sudak and A.M. Desai
Reverse osmosis for Yuma desalting plant 19(1976)389

A. Desai
Performance of hydranautics reverse osmosis (RO) units at Yuma desalting test facility 23(1977)367

Desai N. V.

R. Rangarajan, N.V. Desai, R.C. Mody, D. Mohan and A.V. Rao
Development of fabric reinforced polysulfone membranes 85(1991)81

Descamps C.

P. Maldague, C. Descamps, W. Debay, A. Paquet, W. Bongard and B. Cox
Production combinée d'électricité et d'eau dessalée a l'aide de réacteurs Vulcain et d'unités LTV: Aspects technico-économiques d'installations de moyenne puissance 5 suppl.(1969)463

Deshpande P.B.

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

R. Selvaraj, P.B. Deshpande, S.S. Tambe and B.D. Kulkarni
Neural networks for the identification of MSF desalination plants 101(1995)185

M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi
Model based control for reverse osmosis desalination processes 104(1996)59

Devmurari C. V.

C.V. Devmurari and M.V. Chandorikar
Reverse osmosis plant design for recovery of sodium sulfate from rayon mill spent liquor: An illustration 48(1983)331

Devoto O.

C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: theoretical calculation of the osmotic coefficient 10(1972)263

Dhiman N. K.

N.K. Dhiman
Transient analysis of a spherical solar still 69(1988)47

N.K. Dhiman
Evaluation of optimum thickness of bottom insulation for a conventional solar still 78(1990)201

Di Felice R.

D. Barba and R. Di Felice
Heat transfer in turbulent flow on a horizontal tube falling film evaporator. A theoretical approach 51(1984)325

Di Giacomo G.

D. Barba, V. Brandani, G. Di Giacomo and P.U. Foscolo
Magnesium oxide production from concentrated brines 33(1980)241

D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
High temperature distillation process with sea water feed decalcification pretreatment 40(1982)347

D. Barba, V. Brandani and G. di Giacomo
CaS04 scale conditions of membranes predicted by a multi-ion thermodynamic model 54(1985)227

V. Brandani, G. Del Re and G. di Giacomo
A new model for predicting thermodynamic properties of sea salt solutions 56(1985)299

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Gas—liquid equilibrium of aqueous salted solutions under high pressure and temperature 65(1987)101

D. Barba, V. Brandani, G. Del Re and G. Di Giacomo
Activity coefficients in aqueous multicomponent electrolyte solutions from ambient to 200°C 65(1987)113

G. Di Giacomo, V. Brandani and G. Del Re
Evaporation of olive oil mill vegetation waters 81(1991)249

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of sulfate salts 89(1992)185

G. Di Giacomo, P. Brandani, V. Brandani and G. Del Re
Solubility of boric acid in aqueous solutions of chloride salts 91(1993)21

G. Del Re, F. Fantauzzi, G. Di Giacomo and V. Mucciante
Enthalpy of dilution of aqueous CaCI2 solutions at 308.15 K 107(1996)199

G. Di Giacomo, G. Del Re and D. Spera
Milk whey treatment with recovery of valuable products 108(1996)273

Di Menza R.

L. Lazzarino and R. Di Menza
Economical evaluation of organic moderated and cooled reactors (ROVI) designed to produce vapor for desalting plants 2(1967)220

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

G. Nebbia, R. Di Menza and L. Pierazzi
Optimization study on the coupling of a low-temperature ROVI reactor with a desalination plant 5 suppl.(1969)419

di Pinto A. C.

A.C. di Pinto and J.L. Hooper
Desalination activities in Italy
20(1977)105

M. Beccari, A.C. di Pinto and L. Spinosa
Liquid film distributors for vertical tube evaporation desalination plants
29(1979)295

M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa
Pilot and full-scale research on the vapour compression desalination process
37(1981)257

Di Simone I. S.

G.F. Casini, I.S. Di Simone and M. Minervini
Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives
39(1981)339

Diakov A. A.

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko
6(1969)349

Dick R.

R. Dick and L. Nicolas
Composite reverse osmosis membranes prepared from polyvinyl alcohol and toluene diisocyanate (in French)
17(1975)239

Dickey L. C.

L.C. Dickey and J.C. Craig, Jr.
Determination of a liquid state from that of liquid solution coupled to it by a common vapor phase 78(1990)397

L.C. Dickey
Evaporation of water from agitated freezing slurries at low pressure
104(1996)155

Dickson A. N.

A.N. Dickson and R.S. Silver
Flow of flashing water in conduits
2(1967)175

A.N. Dickson and J.K. Bradie
Some basic aspects of the flash-distillation process 5 suppl.(1969)859

Dickson J. M.

M.L. Costa and J.M. Dickson
Modelling of modules and systems in reverse osmosis. Part I: Theoretical system design model development 80(1991)251

J.M. Dickson, J. Spencer and M.L. Costa
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part I: Theoretical model development
89(1992)63

J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model 99(1994)1

Diffey H.R.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

Dikeou J.T.

J.E. Backstrom and J.T. Dikeou
Polymer concrete: A potential construction material for desalination plants. Part I
9(1971)97

Dillon R.S.

J.J. Perona and R.S. Dillon
Multistage hyperfiltration plants for the desalination of brackish waters
11(1972)149

Dimitrijevic S.

N. Ninic, M. Novakovic, S. Dimitrijevic and S. Savovic
Desalination with a reversible flashing process 89(1993)263

Dimov A. D.

A.D. Dimov and I. Alexcandrova
Preparation of ion-exchange membranes from modified polyethylene with high molecular weight 46(1983)361

Dimova-Todorova M.

I. Dobrevsky, M. Dimova-Todorova and T. Panayotova
Electroplating rinse waste water treatment by ion exchange 108(1996)277

Ditter J. F.

R.E. Kesting, J.M. Newman, K.T. Nam and J.F. Ditter
Dry-RO membranes from blends of ionogenic and nonionogenic polymers
46(1983)343

Dix T. E.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

T.E. Dix
Development of SOLAR DESAL, a code for modeling, simulation and design of solar desalination systems 39(1981)169

Dixit S. N. S.

E.I. Shaheen and S.N.S. Dixit
Scale reduction in saline water conversion
13(1973)187

Dmitriev E.A.

S.P. Agashichev and E.A. Dmitriev
Stochastic modeling particle-size distribution in permeate and in concentrate on the stage of membrane pretreatment before reverse osmosis 110(1997)75

Dobrevsky I.

I. Dobrevsky and A. Zvezdov
Investigation of pore structure of ion exchange membranes 28(1979)283

I. Dobrevsky, V. Mavrov and B. Bonev
Effect of recovery on desalination of the Black Sea water by reverse osmosis
41(1982)209

I. Dobrevsky and M. Georgieva
Some possibilities for solar evaporation intensification 45(1983)93

I. Dobrevsky, V. Mavrov and B. Bonev
Reverse osmosis as a step for make-up demineralised water for power stations
46(1983)157

I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova
Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production 67(1987)163

V. Mavrov, I. Dobrevsky, B. Bonev and N. Petkov
Effect of magnesium hydroxide (or hydrated MgO) formed under alkaline conditions on brackish water pretreatment for reverve osmosis 85(1992)335

I. Dobrevsky and S. Pavlova
Organic matter removal from natural waters by electrodialysis demineralization 86(1992)43

I. Dobrevsky, M. Dimova-Todorova and T. Panayotova
Electroplating rinse waste water treatment by ion exchange 108(1996)277

Docker P.

P. Wong, P. Docker, E. Gabbrielli and P. Wade
Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia 98(1994)225

Doelle R. R.

R.R. Doelle and C.K. Wojcik
Performance study of RO systems in Saudi Arabia 30(1979)315

R.R. Doelle
Reverse osmosis pre-treatment techniques in Saudi Arabia 30(1979)317

R.R. Doelle and J.R. Smith
Utilization of organo phosphonate chemicals in reverse osmosis scale growth 32(1980)113

Dohno R.

R. Dohno, T. Azumi and S. Takashima
Permeability of mono-carboxylate ions across an anion-exchange membrane 16(1975)55

Doi K.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Doi S.

S. Doi and K. Hamanaka
Pore size control technique in the spinning of polysulfone hollow fiber ultrafiltration membranes 80(1991)167

Domenech S.

D. Aussenac, S. Domenech and M. Enjalbert
Mathematical model of a mechanical vapour compression evaporator. Applicaliurl lu seawater desalting. Part I. The model settlement 41(1982)137

D. Aussenac, M. Enjalbert and S. Domenech
Mathematical model of a mechanical-vapor compression evaporator. Application to the production of freshwater by seawater desalination. Part II. Numerical exploitation 49(1984)117

P. Floquet, L. Pibouleau and S. Domenech
Recent trends in process optimization 92(1993)1

Dondero G.

F. Vigo, C. Uliana and G. Dondero
Ultrafiltration membranes obtained by poly(acrylonitrile) grafted onto poly(vinylchloride) 70(1988)277

Dong Chuanyin

Dong Chuanyin
Preparation of charge-mosaic membranes by radiation-induced graft copolymerization of PE films with styrene and 4-vinylpyridine. II. Effects of pre-irradiation dosage, atmosphere, storage time and storage temperature of grafting of vinylpyridine onto PE films 62(1987)275

Dong Duo

Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang
The 200 MW nuclear heating reactor and its possible application in seawater desalination 99(1994)367

Dong Shenghua

Hou Tai-Ping, Dong Sheng-Hua and Zhehg Ling-Ying
The study of mechanism of organic additives action in the polysulfone membrane casting solution 83(1991)343

Dooly R.

R. Dooly and J. Glater
Alkaline scale formation in boiling sea water brines 11(1972)1

J. Glater, K.S. Murdia and R. Dooly
Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation 14(1974)197

Dorges P.E.

R. Douvry and P.E. Dorges
Etude économique d'installations à fins multiples: produetion d'électricité, dessalement de l'eau de mer et industries chimiques 5 suppl.(1969)697

Dotremont C.

C. Dotremont, S. Goethaert and C. Vandecasteele
Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes 91(1993)177

C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele
Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons 95(1994)91

Douglas T. A.

R. Heaton and T.A. Douglas
The operation of sea water distillation plants in relation to materials selection 41(1982)71

Douvry R.

R. Douvry and M. Cohen de Lara
Study of fluid mechanics and heat transfer in multiflash desalination plants (in French) 2(1967)345

R. Douvry and P.E. Dorges
Etude économique d'installations à fins multiples: produetion d'électricité, dessalement de l'eau de mer et industries chimiques 5 suppl.(1969)697

Dowler N. A.

A.J. van Reenen, N.A. Dowler and R.D. Sanderson
The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid) 69(1988)1

Downing E.A.

E.A. Downing, A.J. Coleman and T.H. Bagwell, Jr.
US Army reverse osmosis membrane research programs 99(1994)383

E.A. Downing
Force Provider: An emergency response system 99(1994)401

Doyen W.

W. Doyen, R. Leysen, J. Mottar and G. Waes
New composite tubular membranes for ultrafiltration 79(1990)163

Dozel S.

K.W. Böddeker, G. Bengtson, H. Pingel and S. Dozel
Pervaporation of high boilers using heated membranes 90(1993)249

Drake F.A.

F.A. Drake
Desalting in Hong Kong — The first phase 18(1976)1

F.A. Drake
Measurements and control in flash evaporator plants 59(1986)241

Drake J. C.

J.C. Drake
The use of electrolysis to generate "flashing nuclei" 6(1969)335

M. Takada and J.C. Drake
Application of improved high-performance evaporator 45(1983)3

Dresner L.

R.J. Raridon, L. Dresner and K.A. Kraus
Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method 1(1966)210

L. Dresner
Some remarks on the integration of the extended Nernst-Planck equations in the hyperfiltration of multicomponent solutions 10(1972)27

L. Dresner
Geometric effects in piezodialysis through charge-mosaic membranes 10(1972)47

L. Dresner
Ion exclusion from neutral and slightly charged pores 15(1974)39

L. Dresner
Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis 15(1974)109

L. Dresner
Salt transport in composite reverse osmosis membranes 15(1974)371

Driancourt A.

C. Friedrich, A. Driancourt, C. Noël and L. Monnerie
Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone 36(1981)39

Drioli E.

F. Bellucci, E. Drioli and A. Pozzi
Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results 16(1975)287

E. Drioli, M. Mendia and R. Molinari
Membrane processes combined with enzymatic reactions: an experimental study 24(1978)193

E. Drioli and F. Bellucci
Concentration polarization and solute—membrane interactions affecting pressure driven membrane processes 26(1978)17

E. Drioli and B. Cortese
Ultrafiltration processes for pollution control and chemical reuse in the tanning industry 34(1980)131

N. Chlubek and E. Drioli
A study on thermal driven membrane processes in water purification 46(1983)179

E. Drioli
Membrane technology in the rationalization of industrial processes: Experimental results 46(1983)181

E. Drioli and Yonglie Wu
Membrane distillation: an experimental study 53(1985)339

E. Drioli
Membrane development for seawater desalination 63(1987)57

V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli
Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis 78(1990)257

S.N. Gaeta, H. Zhang, E. Drioli and A. Basile
Polyorganophosphazene membranes: Preparation and transport properties 80(1991)181

V. Calabrò, E. Drioli and F. Matera
Membrane distillation and wastewater treatment 83(1991)209

S.N. Gaeta, E. Petrocchi, E. Negri and E. Drioli
Chlorine resistance of polypiperazineamide membranes and modules 83(1991)383

R. Molinari, R. Gagliardi and E. Drioli
Methodology for estimating saving of primary energy with membrane operations in industrial processes 100(1995)125

V. Calabro and E. Drioli
Polarization phenomena in integrated reverse osmosis and membrane distillation for seawater desalination and waste water treatment 108(1996)81

A. Cassano, E. Drioli, R. Molinari and C. Bertolutti
Quality improvement of recycled chromium in the tanning operation by membrane processes 108(1996)193

Drude B. C.

B.C. Drude
Submarine units for reverse osmosis 2(1967)325

B.C. Drude and F.H. Röhl
Pressurized-water reactors for natural and enriched uranium 5 suppl.(1969)319

Dubois E

R. Brun, E. Dubois and Y. Duriau
Behaviour of cellulose acetate membranes in reverse osmosis (in French) 4(1968)119

Dubois F.

F. Dubois, F. Lauro and J.J. Libert
Some recent developments in sea water distillation carried out in France 23(1977)423

Dubos M.

S.S. Kremen, C. Hayes and M. Dubos
Large-scale reverse osmosis processing of metal finishing rinse waters 20(1977)71

Ducruet P.

H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut
Utilization of the new mineral UF membranes for making semi-hard cheeses 35(1980)243

Dudley L.Y.

L.Y. Dudley and E.G. Darton
Membrane autopsy — A case study 105(1996)135

L.Y. Dudley and E.G. Darton
Pretreatment procedures to control biogrowth and scale formation in membrane systems 110(1997)11

Dukler A. E.

C.J. Huang, H.M. Lee and A.E. Dukler
Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion 6(1969)25

D. Maron-Moalem, S. Sideman and A.E. Dukler
Dripping characteristics in a horizontal tube film evaporator 27(1978)117

Duldulao F. D.

E.J. Del Rosario and F.D. Duldulao
Preparation and characterization of polysulfone ultrafiltration membranes for concentrating waste tuna broth 70(1988)293

Dunkelberger G. W.

F.E. Duran and G.W. Dunkelberger
A comparison of membrane softening on three South Florida groundwaters 102(1995)27

Dunlap R. M.

D.W. Coillet and R.M. Dunlap
The eighth voyage aboard Al Hammal: A study of the transport of a large tubular iceberg from the Antarctic to the Arabian Peninsula 29(1979)47

Dunson W. A.

G.D. Stokes and W.A. Dunson
Passage of water and electrolytes through natural and artificial keratin membranes 42(1982)321

Dupee T.

T. Dupee and W. Andrews
Second report on the operation of a 75,000 gpd seawater reverse osmosis plant (Ras Al Mishab, Saudi Arabia) 22(1977)445

Düputell D.

D. Düputell, E. Staude and D. Wyszynski
Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone 95(1994)75

Duran F. E.

F.E. Duran and G.W. Dunkelberger
A comparison of membrane softening on three South Florida groundwaters 102(1995)27

Durante A.

C. Temstet, G. Canton, J. Laborie and A. Durante
A large high-performance MED plant in Sicily 105(1996)109

Durante R.W.

R.W. Durante
The Bolsa Island dual-purpose nuclear power and desalination project 5 suppl.(1969)169

R.W. Durante
Pre-packaged barge mounted desalting modules 19(1976)555

Durham B.

B. Durham
Membrane pretreatment of reverse osmosis - Long term experience on difficult waters 110(1997)49

Duriau Y D

R. Brun, E. Dubois and Y. Duriau
Behaviour of cellulose acetate membranes in reverse osmosis (in French) 4(1968)119

Dutheil F.

F. Dutheil and J. Gaussens
Cost of water and desalination of sea water: Characteristics of supply and demand (in French) 2(1967)234

F. Dutheil and M. Malissen
Aperçu sur le marché de l'eau dessalée en France pour de petites unités 5 suppl.(1969)277

Dutre B.

B. Dutre and D. Taeymans
Permeate flux improvement along a tubular ultrafiltration membrane 70(1988)317

B. Dutré and G. Trägårdh
Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications 95(1994)227

Dytnersky Y. I.

Y. Dytnersky and Y. Hojainov
Extraction and utilization of valuable components from ocean water 81(1991)261

Y.I. Dytnersky, S.P. Agashichev and Y.K. Romanenko
The calculation of microfiltration of suspensions in cartridge filters 81(1991)265

Y.I. Dytnersky, K.A. Volcheck and N.B. Polyanskaya
Separation of multicomponent solutions using reagent ultrafiltration 81(1991)273

Ebrahim S.

S. Ebrahim and A. Malik
Pretreatment of surface seawater feed at DROP 63(1987)95

S. Ebrahim and A. Malik
Membrane fouling and cleaning at DROP 66(1987)201

S.E. Ebrahim and B.A. Darwish
Scaling potential of Kuwait seawater for reverse osmosis desalination 74(1989)141

I.M. Alatiqi, A.H. Ghabris and S. Ebrahim
System identification and control of reverse osmosis desalination 75(1989)119

S. Ebrahim
Cleaning and regeneration of membranes in desalination and wastewater applications: State-of-the-art 96(1994)225

S. Ebrahim and M. Abdel-Jawad
Economics of seawater desalination by reverse osmosis 99(1994)39

M. Abdel-Jawad and S. Ebrahim
Beachwell seawater intake as feed for an RO desalting system 99(1994)57

S. Ebrahim and H. El-Dessouky
Evaluation of commercial cleaning agents for seawater reverse osmosis membranes 99(1994)169

S.H. Ebrahim, M.M. Abdel-Jawad and M. Safar
Conventional pretreatment system for the Doha Reverse Osmosis Plant: Technical and economic assessment 102(1995)179

S. Ebrahim, S. Bou-Hamed, M. Abdel-Jawad and N. Burney
Microfiltration system as a pretreatment for RO units: Technical and economic assessment 109(1997)165

M. Abdel-Jawad, S. Ebrahim, F. Al-Atram and S. Al-Shammari
Pretreatment of the municipal wastewater feed for reverse osmosis plants 109(1997)211

S. Bou-Hamad, M. Abdel-Jawad, S. Ebrahim, M. Al-Mansour and A. Al-Hijji
Performance evaluation of three different pretreatment systems for seawater reverse osmosis technique 110(1997)85

Eckman T. J.

S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
Aromatic/cycloaliphatic polyamide membrane 64(1987)259

T.J. Eckman, I. Moch, Jr. and C.P. Shields
The TWINTM permeator - Development and commercialization of a new RO device 96(1994)11

Edahiro K.

K. Edahiro, T. Hamada, M. Arai and Y. Hirao
Research and development of multi-effect horizontal tube film evaporator 22(1977)121

Edalat M.

M. Edalat, J. Entessari and H. Hamidi
The Bushehr 200,000 m3/d desalination plant 26(1978)127

Eden R.E.

R.E. Eden
Wastewater reuse — Limitations and possibilities 106(1996)335

D. Christova-Boal, R.E. Eden and S. McFarlane
An investigation into greywater reuse for urban residential properties 106(1996)391

Edlinger R.

R. Edlinger and F. Zaplana Gomila
Ibiza seawater RO — Special design features and operating data 105(1996)125

Edwards E. D.

P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson
THM precursor removal and softening - Ft. Myers 12 MGD RO Membrane Plant, Florida, USA 76(1989)39

E. Edwards and P. Bowdoin
Irrigation with membrane plant concentrate: Fort Myers case study 78(1990)49

Edwards M.N.

M.N. Edwards
Fifteen years of progress – A review of the United States Desalting Program 5 suppl.(1969)41

Edwards T.J.

T. Hakuta, T.J. Edwards and J.M. Prausnitz
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions 21(1977)23

Effenberger F.

B. Bauer, H. Strathmann and F. Effenberger
Anion-exchange membranes with improved alkaline stability 79(1990)125

Egli T.

G. Hamer, T. Egli and N. Al-Awadhi
Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions 72(1989)31

Egorov A. P.

J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
Operating experience of desalination units in Schevchenko 45(1983)167

Egozy Y.

Y. Egozy, E. Korngold and N.C. Daltrophe
Waste water recycling by ion-exchange: I. Complete desalination 33(1980)123

Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun
Waste water recycling by ion-exchange: II. Partial desalination 33(1980)333

Y. Egozy and E. Korngold
Effect of the energy crisis on water desalination and waste water recycling by ion exchange 40(1982)181

Y. Oren and Y. Egozy
Studies on polarity reversal with continuous deionization 86(1992)155

Eguchi Y.

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Ehara L.

T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa
Seawater desalination by electrodialysis 25(1978)1

Ehret A.

A. Ehret and H. Sonnenschein
Combination of a high-temperature reactor with a closed-cycle gas-turbine and desalination plant 5 suppl.(1969)407

Eichen E.

H.K. Plummer, Jr., C.D. Melvin and E. Eichen
Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy 15(1974)93

Eid J. C.

J.C. Eid and G.B. Andeen
Effects of acceleration on particulate fouling in reverse osmosis 47(1983)191

J.C. Eid and G.B. Andeen
Effects of acceleration on spiral-wound membrane performance in reverse osmosis 52(1984)15

Eid N.

T. Hodgkiess, N. Eid and W.T. Hanbury
Corrosion of welds in seawater 27(1978)129

T. Hodgkiess, W.T. Hanbury, M. Arndt and N. Eid
Corrosion of welded samples in seawater 31(1979)399

Eid N. M. A.

N.M.A. Eid
Localized corrosion at welds in structural steel under desalination plant conditions Part I: Effect of surface roughness and type of welding electrode 73(1989)397

N.M.A. Eid
Localized corrosion at welds in structural steel under desalination plant conditions. Part II: Effect of heat treatment, test temperature and test media 73(1989)407

H. Al-Zahrani, S. Somuah and N.M.A. Eid
Localized corrosion behavior in stainless structural steels weldments under desalination plant condition 84(1991)349

Eigenberger G.

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Eimer K.

B.M. Watson and K. Eimer
Comparison of MSF heat rejection sections and seawater cooled power station condensers 38(1981)49

K. Eimer
Energy consumption and operational aspects of on load ball cleaning systems 38(1981)201

K. Eimer
Energetic aspects of the fouling of MSF desalination plants with and without the use of on-load ball cleaning system 40(1982)363

Eisa E.I.

O.A. Hamed, E.I. Eisa and W.E. Abdalla
Overview of solar desalination 93(1993)563

Eisenberg D.

K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson
City of San Diego potable reuse of reclaimed water: Final results 88(1992)201

Eisenhauer R. J.

J.W. Kaakinen, R.J. Eisenhauer and C. van Hoek
High recovery in the Yuma desalting plant 23(1977)357

Eisold C.

K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul
Electrochemical characterization of charged membranes and membrane systems 104(1996)19

Eissa S. H.

M.A. Mandil, S.H. Eissa, A.O. Farag, A. El-Nikhely, F. Abdel Salam and A.M. Al-Taweel
Reciprocating plate reactors for water reuse 47(1983)275

Eissenberg D. M.

R.P. Hammond, D.M. Eissenberg, D.K. Emmerman, J.E. Jones, Jr. and H.H. Sephton
Large-scale sea-water distillation for Southern California 87(1992)69

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Ejaz A.

H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich
Investigations in regard of MSF desalination plant engineering during 7 years of operation 31(1979)159

El-Akeel Y. I.

Y.I. El-Akeel and H.I. Amer
Mineralogy of scales in the brine heater tubes 23(1977)255

El-Allawy M. M.

K. Genthner and M. El-Allawy
Assessment of MSF-evaporator design with reduced cooling water requirements 31(1979)57

K. Genthner and M.M. El-Allawy
Solutions for coupling a mechanical vapour compression distiller with a multi-stage-flash evaporator 45(1983)143

El-Assar R.

R. El-Assar and M. Lenhard
Utilisation of hydraulic coupling for brine recirculation pumps 44(1983)91

R. El-Assar, G. Jung and G. Gerrard
Design features of seawater intake, distribution and outfall systems, applied to the Ruwais Utilities Complex, Abu Dhabi 45(1983)115

El-Azhari A. A.

M.G.A. Khedr, M.M.H. Badran and A.A. El Azhari
Pitting corrosion behaviour of aluminium in water desalination plants 72(1989)351

El-Baghdadi A.

A.M. El-Nashar and A. El-Baghdady
Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study 49(1984)271

A.M. El-Nashar and A.M. El-Baghdadi
Seawater distillation by solar energy 61(1987)49

El-Bassouni A.-M. A.

A.-M. A. El-Bassouni
Factors influencing the performance of basin-type solar desalination units 93(1993)625

El-Dahshan M.E.

M.I. Hazza and M.E. El-Dahshan
The effect of molybdenum on the corrosion behaviour of some steel alloys 95(1994)199

A. Al-Arifi, M.E. El-Dahshan and M.I. Hazzaa
The effect of molybdenum on the corrosion behaviour of steel alloy in sea water 97(1994)77

El-Dessouky H.T. A.

M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky
Comparison between the use of a baffle and a wire mesh in flashing units 19(1976)83

M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky
Flashing in desalination units 19(1976)93

H.T. El-Dessouky and F. Mayinger
New geometry for MSF units 31(1979)45

H.T.A. El-Dessouky
Losses in MSF desalination units 44(1983)103

H.T.A. El-Dessouky and G.M.R. Assassa
Computer code for optimizing MSF desalination plant 45(1983)111

G.M.R. Assassa and H.T.A. El-Dessouky
Dynamic stability of MSF desalination plants 45(1983)133

H.T. El-Dessouky and G.M.R. Assassa
Computer simulation of the horizontal falling film desalination plant 55(1985)119

A.M. Mubarak and H.T. El-Dessouky
Design of waste heat boiler for desalination-gas turbine co-generation plant 55(1985)145

H.T. El-Dessouky and T.A. Khalifa
Scale formation and its effect on the performance of once through MSF plant 55(1985)199

H.T.A. El-Dessouky
Humidification-dehumidification desalination process using waste heat from a gas turbine 71(1989)19

H.T. El-Dessouky
A water desalination course 94(1994)331

S. Ebrahim and H. El-Dessouky
Evaluation of commercial cleaning agents for seawater reverse osmosis membranes 99(1994)169

H. El-Dessouky, H.I. Shaban and H. Al-Ramadan
Steady-state analysis of multi-stage flash desalination process 103(1995)271

H. El-Dessouky and S. Bingulac
Solving equations simulating the steady-state behavior of the multi-stage flash desalination process 107(1996)171

El-Fouly M. F.

M.F. El-Fouly and E.E. Khalil
The water problem in Egypt 30(1979)205

E.E. Khalil, M.M. Hilal, M.F. El-Fouly and H.Z. El-Mogy
Heat transfer and fluid flow characteristics in flash desalination units 39(1981)283

El-Hadik A. A.

M.A. Darwish and A.A. El-Hadik
The multi-effect boiling desalting system and its comparison with the multi-stage flash system 60(1986)251

El-Haggar S. M.

A.A. Rizk, M.A. Darwish and S.M. El-Haggar
Flashing flow of water in conduits between chambers in MSF units 20(1977)299

S.M. El-Haggar and A.A. Awn
Optimum conditions for a solar still and its use for a greenhouse using the nutrient film technique 94(1993)55

El-Hares H.

H. El-Hares
Numerical determination of time responses of three flows heat exchanger in desalination plants 19(1976)103

M. Aswed and H. El-Hares
Two detailed case studies of large Libyan desalination plant and their influence on development 20(1977)239

H. El-Hares and M. Aswed
Desalination in the development of Libya. Problems of implementation and impact on environment 20(1977)249

H. El-Hares and M. Aswed
Practical behaviour of electrodialysis and reverse osmosis plants in Libya 22(1977)291

M. Aswed and H. El Hares
Cost comparison of effectively produced desalted water by different processes in a developing country 23(1977)285

M. Aswed and H. El Hares
Maintenance problems of the electrodialysis plants in Libya 27(1978)51

H. El-Hares and M. Aswed
Trends in Libyan desalination and water reuse policy 30(1979)163

H. El-Hares
Instrumentation problems in Libyan desalination plants 39(1981)33

F. Al-Bakeri and H. El Hares
Optimization of sponge ball cleaning system operation and design in MSF plants 92(1993)353

F. Al-Bakeri and H. El Hares
Experimental optimization of sponge ball cleaning system operation in Umm Al Nar MSF desalination plants 94(1993)133

El-Hawary M.E.

M.E. El-Hawary
Artificial neural networks and possible applications to desalination 92(1993)125

El-Hoz M.

M. El-Hoz and L.W. Apperley
Removal of phosphorus from secondary effluent by a matrix filter 106(1996)247

El-Kafrawi M. S. I.

M.H. Ali El Saie, M.S.I. El Kafrawi and M.I. Kamel
Study of the operating conditions for three large MSF desalination units each of capacity 7.2/8.6 mgd (27360/32832 ton/day) in Abu Dhabi, UAE 73(1989)207

El-Khattabia M.O.

M.O. El-Khattabi, M.R.A. Hafidi and A. El-Midaoui
Reduction of melassigenic ions in cane sugar juice by electrodialysis 107(1996)149

El-Maghary Y.

Y. El-Mahgary and E. Tamminen
Relevant methods for planning and optimization of power and water production systems of the Gulf countries 92(1993)149

El-Midaouia A.

M.O. El-Khattabi, M.R.A. Hafidi and A. El-Midaoui
Reduction of melassigenic ions in cane sugar juice by electrodialysis 107(1996)149

El-Mogy H. Z.

E.E. Khalil, M.M. Hilal, M.F. El-Fouly and H.Z. El-Mogy
Heat transfer and fluid flow characteristics in flash desalination units 39(1981)283

El-Nashar A. M.

A.M. El-Nashar and A.A. Husseiny
Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia 19(1976)189

A.M. El-Nashar
The desalting and recycling of wastewaters from textile dyeing operations using reverse osmosis 20(1977)267

A. M. El-Nashar
The separation of shower and laundry wastewater using Zr-PAA RO membranes 23(1977)1

A.A. Bushnak, A.F. Abdul-Fattah, A.A. Husseiny and A.M. El-Nashar
Selection of desalination technology, a decision analysis approach and a case study 30(1979)483

A.M. El-Nashar and A.A. Husseiny
Design aspects of a solar assisted reverse osmosis desalting unit for urban communities 32(1980)239

A.M. El-Nashar
Industrial wastewater treatment for reuse with reverse osmosis 32(1980)411

A.M. El-Nashar
Energy and water conservation through recycle of dyeing wastewater using dynamic Zr(IV)-PAA membranes 33(1980)21

A.M. El-Nashar and J.S. Shih
An investigation of using statistically designed experiments and a computer model 38(1981)397

A.M. El-Nashar and I. Kutbi
The performance of the 12,000 m3/day seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia 38(1981)399

T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione
Design of a small solar-powered desalination system 39(1981)71

A.M. El-Nashar
Analysis of the water desalination and power generation expansion plans for the Emirate of Abu Dhabi 44(1983)107

A.M. El-Nashar
Solar desalination using the vacuum freezing ejector absorption (VFEA) process 45(1983)373

A.M. El-Nashar and A. El-Baghdady
Analysis of water desalination and power generation expansion plans for the Emirate of Abu Dhabi. A preliminary study 49(1984)271

A.M. El-Nashar
Solar desalination using the vacuum freezing ejector absorption (VFEA) process 49(1984)293

A.M. El-Nashar and K. Ishii
Abu Dhabi solar distillation plant 52(1985)217

A.M. El-Nashar and A.M. El-Baghdadi
Seawater distillation by solar energy 61(1987)49

A.M. El-Nashar
Cost allocation for electricity and water for the Umm Al Nar West cogeneration plant using the energy accounting method 71(1989)57

A.M. El-Nashar
Optimum selection of cogeneration systems for power and desalination 71(1989)211

A.M. El-Nashar
Performance of the solar desalination plant at Abu Dhabi 72(1989)405

A.M. El-Nashar and A. Qamhiyeh
Simulation of the performance of MES evaporators under unsteady state operating conditions 79(1990)65

A.M. El-Nashar and A.A. Qamhiyeh
Performance and reliability of a solar desalination plant during a five-year operating period 82(1991)165

D.M.K. Al-Gobaisi, A.S. Barakzai and A.M El-Nashar
An overview of modern control strategies for optimizing thermal desalination plants 84(1991)3

A. Al-Radif, D.M.K. Al-Gobaisi, A.M. El-Nashar and M.S. Said
Review of design and specifications of the world largest MSF units 4x(10-12.8 MIGD) 84(1991)45

A.M. El-Nashar and M.S. Khan
Economic scheduling of the UAN cogeneration plant: A preliminary optimization study 85(1991)93

A.M. El-Nashar
Cost allocation of electricity and water in a cogeneration plant 85(1992)197

D. Herrmann, A. El-Nashar and A. Aidrous
Short-term operational planning in WED. Part 1: Structure of the cogeneration system 92(1993)171

D. Herrmann, A. El-Nashar and A. Aidrous
Short-term operational planning in WED. Part 2: Load dispatch and unit commitment 92(1993)185

A.M. El-Nashar and A.A. Qamhiyeh
Optimal performance of MSF distillers for UANW 9 and 10 power plant: A thermoeconomic study 93(1993)323

A.M. El-Nashar
An optimal design of a solar desalination plant 93(1993)597

A.M. El-Nashar
An MSF evaporator for the UANW 9 and 10 power station. Design considerations based on energy and exergy 97(1994)253

A.M. El-Nashar
System design optimization of a solar desalination plant using a multi-effect stack type distillation unit 97(1994)587

A.M. El-Nashar and A.A. Qamhiyeh
Simulation of the steady-state operation of a multi-effect stack seawater distillation plant 101(1995)231

El-Nikhely A.

M.A. Mandil, S.H. Eissa, A.O. Farag, A. El-Nikhely, F. Abdel Salam and A.M. Al-Taweel
Reciprocating plate reactors for water reuse 47(1983)275

El-Osery I. M.

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

El-Rafaee M.M.

M.A. Darwish, M.M. El-Rafaee and M. Abdel-Jawad
Developments in the multi-stage desalting system 100(1995)35

El-Rafei Sh.

S. El-Rafei, S. El-Shawarby and F.A. Fahim
Heavy metals in wastewater to the Nile 67(1987)355

El-Ramly N.

J.M. English and N. El-Ramly
Economic evaluation of desalting sub-system as a part of the total water system 3(1967)308

N.A. El-Ramly and J.M. English
The economic development of nuclear desalination plants in water and power supply systems 5 suppl.(1969)585

N. El-Ramly
Conjunctive use of desalination — A systems view for planning 19(1976)534

A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton
The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia 27(1978)215

El-Sadek S .

S. El-Sadek and B. Mabrouk
Tourism development and desalination systems: Comparative analysis of systems' suitability for coastal areas of the Red Sea and Gulf of Aqaba, Egypt 88(1992)161

El-Salem M.

M. El-Salem
Experiments with desalination of Arabian Gulf water 39(1981)261

El-Sayed Y. M.

Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar
Desalting saline ground water for agriculture 19(1976)175

Y.M. El-Sayed
On the optimization of systems with water re use 3(1977)515

Y.M. El-Sayed
Advances in the methodologies of optimal thermal design 92(1993)79

Y.M. El-Sayed
On the feasibility of large vapor-compression distillation units 107(1996)13

El-Sebaie O.

W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed
Electrochemical generation of ozone for water treatment using a cell operating under natural convection 99(1994)149

El-Shal W.

W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed
Electrochemical generation of ozone for water treatment using a cell operating under natural convection 99(1994)149

El-Sharkawi F.

W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed
Electrochemical generation of ozone for water treatment using a cell operating under natural convection 99(1994)149

El-Shawarby Sh.

S. El-Rafei, S. El-Shawarby and F.A. Fahim
Heavy metals in wastewater to the Nile 67(1987)355

El-Sheikh Shoheib R.

B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib
Ground water resources in Fayoum area, Egypt 39(1981)295

B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib
Origin of subsurface water in Khartoum province, Sudan 39(1981)297

El-Twaty A. I.

A.I. El-Twaty and S.A. Karshman
Experience with desalination plants in Libya 73(1989)385

El-Warraki A.A.

T.M.H. Saber and A.A. El-Warraki
Electrochemical and spectroscopic studies on dezincification of a-brass. Part II. Effect of polarization on the dezincification process 93(1993)473

Elarbash M. M.

M.M. Elarbash
New sea water intake filtration system 82(1991)303

M.M. Elarbash
Improvements of conventional water intake system 82(1991)315

Elashmawi F.

F. Elashmawi and A.A. Husseiny
Environmental and engineering problems of an agro-industrial complex for the North Eastern region of the Mediterranean 20(1977)289

Elata C.

C. Elata
The determination of the intrinsic characteristics of reverse osmosis membranes 6(1969)1

Elgarni M. M.

N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni
Operating experience of MSF desalination plant at the Abu Kammash chemical complex 73(1989)417

Elhadek A.

M.A. Darwish, A. Elhadek and A. Dayoub
On the thermodynamics of dual purpose power desalting plants. Part II. Using gas turbines 64(1987)169

Eliasek J.

Z. Matejka and J. Eliasek
Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins 42(1982)315

T. Herrera, Z. Matejka and J. Eliasek
Cation exchange kinetics on carboxylic acid resins in a multicomponent system H—Me+—Me2+ 48(1983)161

Elimelech M.

M. Elimelech, William H. Chen and J.J. Waypa
Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer 95(1994)269

J. Glater, S.-K Hong and M. Elimelech
The search for a chlorine-resistant reverse osmosis membrane 95(1994)325

Elliot M.N.

O. Flint and M.N. Elliot
Scale formation in sea water distillation plants 5(1968)5

M.N. Elliot
The present state of scale control in sea water evaporators 6(1969)87

M.N. Elliot
Scale control by threshold treatment 8(1970)221

M.N. Elliot, T.D. Hodgson and A. Harris
Additives for alkaline scale control at temperatures above 93°C (200°F) 14(1974)43

T.D. Hodgson, M.N. Elliot and T.W.J. Jordan
Calcium sulphate scaling in falling film evaporators 14(1974)77

A. Harris, M.A. Finan and M.N. Elliot
A theory of the formation of magnesium scales in sea water distillation plants, and means for their prevention 14(1974)325

Ellis N. D.

H.G. Spencer, D.B. McClellan, N.D. Ellis, D.A. Jernigan and D.N. Mahony
Concentration and recovery dependence of hyperfiltration system rejection of electrolytes by ion exchange membranes 61(1987)17

Elmethnani M.

M. Elmethnani
Simulation model for desalting HTME-type evaporators 97(1994)541

Elmidaoui A.

A. Elmidaoui and C. Gavach
NaCl diffusion across an amphoteric ion exchange membrane 78(1990)343

A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach
Transfer of H2SO4, Na2SO4 and ZNSO4 by dialysis through an anion exchange membrane 101(1995)39

M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui
Chronopotentiometric response of a cation exchange membrane in contact with chromium(III) solutions 105(1996)219

Elmore C. L.

C.L. Elmore
Addition of dimpled plate type effects to existing MED plant increases capacity, performance ratio and scale control 102(1995)265

Elsaesser R. F.

R.F. Elsaesser and H.E. Hoemig
Basic considerations influencing the choice of materials for thermal seawater desalination plants 49(1984)335

Elsayed M. M.

M.M. Elsayed, K. Fathalah, J. Shams and J. Sabbagh
Performance of multiple effect diffusion stills 51(1984)183

M.M. Elsayed
Rational bases for designing vapour compression water desalination systems 58(1986)213

Elser G. L.

P.K. Allen and G.L. Elser
They said it couldn't be done — The Orange County, California experience 30(1979)23

Elshibini F. Z.

F.Z. Elshibini and G.A. Al-Nakshabandi
A modified system of subsidizing distilled water in Kuwait 72(1989)235

Elyanow D.

D. Elyanow, R.G. Parent and J.R. Mahoney
Parametric tests of an electrodialysis reversal (EDR) system with aliphatic anion membranes 38(1981)549

D. Elyanow and J. Mahoney
Desalination and concentration of flue gas scrubber effluents using the electrodialysis reversal process 67(1987)283

R.C. Harries, D. Elyanow, D.N. Heshka and K.L. Fischer
Desalination of brackish groundwater for a prairie community using electrodialysis reversal 84(1991)109

Emami M.

M. Emami, G.H. Jalali Ghajar and N. Kaynia
State of desalination projects in Iran 23(1977)465

Emelina E. P.

L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova
Investigation of water steam drop condensation conditions 2(1967)337

Emerson T.H.

R.L. Campbell and T.H. Emerson
A new water and power combination: Vacuum vapor compression seawater distillation and natural gas fuel cells 99(1994)423

Emerson W. H.

W.H. Emerson and D.T. Jamieson
Some physical properties of sea water in various concentrations 3(1967)213

Emmermann D. K.

W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone
Spray freezer and pressurized counterwasher for freeze desalination 14(1974)249

I. Kamal, D.K. Emmermann and G.F. Tusel
RO, MSF and VTE/VC desalination: A comparative evaluation 30(1979)499

I. Kamal, D.K. Emmermann and G.F. Tusel
RO, MSF and VTE/VC desalination: A comparative evaluation 33(1980)229

D.K. Emmermann
An advanced barge mounted VTE/VC for the desalination of seawater 38(1981)13

G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal
MEDA: A new thermal concept for desalting plants 38(1981)147

B. Ohlemann and D.K. Emmermann
Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant 45(1983)39

H. Kohli, D. Emmermann, R. Kadaj and H. Said
Hybrid desalting technology maximizes recovery 56(1985)61

R.P. Hammond, D.M. Eissenberg, D.K. Emmerman, J.E. Jones, Jr. and H.H. Sephton
Large-scale sea-water distillation for Southern California 87(1992)69

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Emmett A.J.

A.J. Emmett, S. Clarke and S. Howles
Conjunctive wetland treatment/aquifer storage and recovery at Regent Gardens residential development, Northfield, South Australia 106(1996)407

Endo H.

E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki
Synthesis of poly(2,5-pyridinedicarboxylic acid-alt-hydrazine) and reverse osmosis performance of its membranes 94(1993)25

Endon R.

R. Endon, T. Tanaka, M. Kurihara and K. Ikeda
New polymeric materials for reverse osmosis membranes 21(1977)35

English J. M.

J.M. English and N. El-Ramly
Economic evaluation of desalting sub-system as a part of the total water system 3(1967)308

N.A. El-Ramly and J.M. English
The economic development of nuclear desalination plants in water and power supply systems 5 suppl.(1969)585

J.M. English and N.A. Young
Long term investment considerations of conjunctive desalting systems 13(1973)359

Engwall H.

P. Dejmek and H. Engwall
System options and costs in dairy ultrafiltration 35(1980)397

Enjalbert M.

D. Aussenac, S. Domenech and M. Enjalbert
Mathematical model of a mechanical vapour compression evaporator. Applicaliurl lu seawater desalting. Part I. The model settlement 41(1982)137

D. Aussenac, M. Enjalbert and S. Domenech
Mathematical model of a mechanical-vapor compression evaporator. Application to the production of freshwater by seawater desalination. Part II. Numerical exploitation 49(1984)117

Ennis C.E.

W. Pechenick and C.E. Ennis
Desalination plants using higher steam pressures 5 suppl.(1969)397

C.E. Ennis and W. Pechenick
Organization of large desalination-plant studies 5 suppl.(1969)805

Entessari J.

M. Edalat, J. Entessari and H. Hamidi
The Bushehr 200,000 m3/d desalination plant 26(1978)127

Eppinger K. H.

B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis
An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin 13(1973)269

B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak
An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents 25(1978)45

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities 34(1980)171

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins 42(1982)273

Epstein A. C.

A.B. Mindler and A.C. Epstein
Measurements and control in reverse osmosis desalination 59(1986)343

Erbing M. L.

J. Olsson and M.L. Erbing
Experiences with a highly alloyed stainless steel in desalination plants and other Arabian Gulf industrial plants 73(1989)267

Erdmann C.

R. Rautenbach, C. Erdmann and J.S. Kolbach
The fluidized bed technique in the evaporation of wastewaters with severe fouling/scaling potential - Latest developments, applications, limitations 81(1991)285

Erfan M. H.

M.H.A. El-Saie, M.F. Farrag and M.H. Erfan
Computer supervisory control of multi stage flash evaporator 55(1985)107

Erfan Hafez M.H.

M.H. Ali El-Saie and M.H. Erfan Hafez
Selecting and tuning the control loops of MSF desalination for robustness 97(1994)529

Erickson E. E.

J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson
A new thin-film composite seawater reverse osmosis membrane 32(1980)25

Erickson L. E.

L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang
Optimal design of desalination systems 3(1967)225

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis 4(1968)336

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization 4(1968)361

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation 5(1968)237

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization 6(1969)131

L.T. Fan, C.L. Hwang, N.C. Pereira, L.E. Erickson and C.Y. Cheng
Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization 11(1972)217

Ericsson B.

H.E.A. Ghulaigah and B. Ericsson
Riyadh's reverse osmosis water treatment plants — The largest demineralization complex in the world 30(1979)301

B. Ericsson
Salbukh reverse osmosis plant on stream 33(1980)109

B. Ericsson
Membrane processes for water supply and reuse — A question of energy consumption and cost 35(1980)401

S. Nordin, B. Ericsson and B. Wallen
Optimization of high pressure piping in reverse osmosis plants 55(1985)247

M. Al-Arrayedh, B. Ericsson and M. Ohtani
Construction and operation of 46,000 m3/day reverse osmosis desalination plant, RA'S Abu Jarjur, Bahrain 55(1985)319

B. Ericsson and B. Hallmans
A comparative study of the economics of RO and MSF in the Middle East 55(1985)441

B. Ericsson, B. Hallmans and P. Vinberg
Optimization for design of large RO seawater desalination plants 64(1987)459

M. Al-Arrayedh, B. Ericsson, M. Amin Saad and H. Yoshioka
Reverse osmosis desalination plant, RA's Abu Jarjur, State of Bahrain — Two years operational experience for the 46,000 m3/day RO plant 65(1987)197

N. A. Nada, Al-Zahrani and B. Ericsson
Experience on pre- and post-treatment from seawater desalination plants in Saudi Arabia 66(1987)303

J. Sikora, C-H. Hansson and B. Ericsson
Pre-treatment and desalination of mine drainage water in a pilot plant 75(1989)363

B. Ericsson and B. Hallmans
Membrane filtration as a pre-treatment method 82(1991)249

B. Ericsson and B. Hallmans
Membrane applications in raw water treatment with and without reverse osmosis desalination 98(1994)3

B. Ericsson
Process options for nitrogen and phosphorus removal in domestic wastewater 98(1994)105

B. Ericsson and B. Hallmans
Control of the nutrient pollution discharge from the Vistula River Basin in Poland 98(1994)185

B. Ericsson and B. Hallmans
Treatment and disposal of saline wastewater from coal mines in Poland 98(1994)239

B. Ericsson and B. Hallmans
Trends in domestic waste water treatment in Sweden 98(1994)259

B. Ericsson and B. Hallmans
Treatment of saline wastewater for zero discharge at the Debiensko coal mines in Poland 105(1996)115

B. Ericsson and G. Trägårdh
Treatment of surface water rich in humus - Membrane filtration vs. conventional treatment 108(1996)117

B. Ericsson, M. Hallberg and J. Wachenfeldt
Nanofiltration of highly colored raw water for drinking water production 108(1996)129

Eriksson A.

A. Eriksson
Some examples of the use of crossflow filtration in the downstream processing in fishing industry 53(1985)259

Eriksson G.

G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt
Membrane technology research at Lund Institute of Technology 27(1978)81

Eriksson P.

G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt
Membrane technology research at Lund Institute of Technology 27(1978)81

P. Eriksson
Preconcentration by reverse osmosis before evaporation: possibilities in Sweden 35(1980)423

Eriksson P. K.

R.E. Larson, R.J. Petersen and P.K. Eriksson
Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements 46(1983)81

P.K. Eriksson
The effect of dissolved oxygen in water on the performance of a high rejection polyamide reverse osmosis membrane 83(1991)249

Erkenbrecher Jr. C. W.

L.E. Applegate and C.W. Erkenbrecher, Jr.
Monitoring and control of biological activity in Permasep® seawater RO plants 65(1987)331

L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters
New chloramine process to control aftergrowth and biofouling in PermasepR B-10 RO surface seawater plants 74(1989)51

Erswell A.

A. Erswell, C.J. Brouckaert and C.A. Buckley
The reuse of reactive dye liquors using charged ultrafiltration membrane technology 70(1988)157

Esen I.

K. Puskas and I. Esen
Possibilities of utilizing municipal and industrial wastewater effluents to condition soil 72(1989)125

Esposito N.

F. Bellucci and N. Esposito
Efficiency, recovery and productivity of continuous reverse osmosis systems: New closed expressions 28(1979)181

Estrin J.

J.S. Wey and J. Estrin
The growth and nucleation of ice in a batch Couette flow crystallizer 14(1974)103

Etgar J.

P. Glueckstern, M. Wilf, J. Etgar and J. Ricklis
Use of microprocessors for control, data acquisition and on line performance evaluation in a reverse osmosis plant 55(1985)469

Ettouney H. M.

M.A. Rimawi, H.M. Ettouney and G.S. Aly
Transient model of multistage flash desalination 74(1989)327

Etxaniz J.

J.F. Henriquez, J. Bonet and J. Etxaniz
Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m3/day RO plant 82(1991)71

Evangelista F.

D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
High temperature distillation process with sea water feed decalcification pretreatment 40(1982)347

F. Evangelista
A graphical method for the design of an electrodialysis stack 64(1987)353

D. Barba, F. Evangelista, G. Jonsson and L. Marrelli
An analytical method for design of electrodialysis stacks operated at high concentrations 71(1989)137

D. Barba, F. Evangelista and L. Marrelli
A general thermodynamic tool for predicting salting coefficients of non-electrolytes in brackish or seawater 71(1989)289

Evans C. K.

M.A. Finan, S. Smith, C.K. Evans and J.W.H. Muir
BELGARD®EV - 15 years' experience in scale control 73(1989)341

Evans S.

S. Evans and R.M. Gomes
Desalination of Rhine River water by ion exchange. Part 1. Pilot plant studies of lime slurry regeneration 19(1976)433

Evans T. W.

S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim
The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers 17(1975)3

Everest W. R.

W.R. Everest and T. Murphree
Desalting residuals: A problem or a beneficial resource? 102(1995)107

W.R. Everest and J.T. Morris
The Frances Desalter: A key to water independence on the Irvine Ranch 103(1995)127

Ewoldsen E. I.

F.B. Leitz and E.I. Ewoldsen
Design criteria for the Yuma desalting plant 24(1978)321

Ez-Dean A.

A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
Need and feasibility of nuclear desalination for low cost potable water production 81(1991)505

Ezzahar S.

S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach
Continuous electropermutation with ion-exchange textiles 104(1996)227

Fabiani C.

L. Panyor and C. Fabiani
Anion rejection in a nitrate highly rejecting reverse osmosis thin-film composite membrane 104(1996)165

C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita
Treatment of waste water from silk degumming processes for protein recovery and water reuse 105(1996)1

C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini
Chromium(III) salts recovery process from tannery wastewaters 108(1996)183

Fabuss B. M.

B.M. Fabuss and A. Korosi
Vapor pressures of binary aqueous solutions of NaCI, KCI, Na2SO4 and MgSO4 at concentrations and temperatures of interest in desalination processes 1(1966)139

B.M. Fabuss and A. Korosi
Vapor pressures of ternary aqueous solutions of NaCI, KCI, Na2SO4 and MgSO4 at concentrations and temperatures of interest in desalination processes 1(1966)149

B.M. Fabuss and A. Korosi
Thermodynamic properties of sea water and its concentrates 2(1967)271

Fadel M.

M. Fadel, K. Wangnick and N.M. Wade
Floating desalination plants. An engineering, operating and economic appraisal 45(1983)49

Faerman V.

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Faggard G.

M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai
Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant 76(1989)75

Fahey P.M.

P.M. Fahey and H.E. Grethlein
Improved cellulose acetate membranes for reverse osmosis 9(1971)297

Fahim F. A.

S. El-Rafei, S. El-Shawarby and F.A. Fahim
Heavy metals in wastewater to the Nile 67(1987)355

Fajner D.

A. Saavedra, G. Bertoni, D. Fajner and G.C. Sarti
Reverse osmosis treatment of process water streams 82(1991)267

Fakhoury A. G.

Z.M. Abu-Eid and A.G. Fakhoury
Some special design features of Kuwait MSF plants 23(1977)263

Falalejev D.V.

S.P. Agashichev and D.V. Falalejev
Modeling temperature polarization phenomena for longitudinal shell-side flow in membrane distillation process 108(1996)99

Falleni D.

F. Fioravanti, D. Falleni, G. Odone and A. De Maio
Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia 31(1979)155

Famelart M.-H.

O. Surel and M.-H. Famelart
Microfiltration of long chain carboxylates: Relationship between rejection and micellization 95(1994)11

Fan Guanghui

Guanghu Fan, Baoquan Zhao, Jiayan Chen and Lingying Zheng
The mechanism of the formation of aromatic polyamide type asymmetric RO membranes 46(1983)321

Guanghui Fan, Chaojun Zhang and Lingying Zheng
The study of action of organic additives in polysulfonamide UF membranes 56(1985)325

Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu
The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence) 85(1992)297

Fan L. T.

L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang
Optimal design of desalination systems 3(1967)225

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis 4(1968)336

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization 4(1968)361

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation 5(1968)237

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization 6(1969)131

L.T. Fan, C.L. Hwang, N.C. Pereira, L.E. Erickson and C.Y. Cheng
Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization 11(1972)217

LL.E. Stamets, L.T. Fan and C.L. Hwang
Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis 11(1972)239

Fan Songchun

Ling Al-Lian, Zheng Yong-Zhuang, Bao Shi-Yao and Fan Song-Chun
An acrylonitrile copolymer material for membrane manufacture. III. Manufacture of a co-mixed UF membrane of AN-MMA binary copolymer and polyvinyl chloride 86(1992)291

Fane A. G.

D.E. Wiley, C.J.D. Fell and A.G. Fane
Optimisation of membrane module design for brackish water desalination 52(1985)249

A.G. Fane, C.J.D. Fell and K.J. Kim
The effect of surfactant pretreatment. on the ultrafiltration of proteins 53(1985)37

R.J. Baker, A.G. Fane, C.J.D. Fell and B.H. Yoo
Factors affecting flux in crossflow filtration 53(1985)81

A.G. Fane and C.J.D. Fell
A review of fouling and fouling control in ultrafiltration 62(1987)117

A.G. Fane, R.W. Schofield and C.J.D. Fell
The efficient use of energy in membrane distillation 64(1987)231

K.J. Kim, A.G. Fane and C.J.D. Fell
The performance of ultrafiltration membranes pretreated by polymers 70(1988)229

R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell
Flux and rejection in the ultrafiltration of colloids 70(1988)251

P. Gatenholm, C.J.D. Fell and A.G. Fane
Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions 70(1988)363

R.W. Schofield, A.G. Fane, C.J.D. Fell and R. Macoun
Factors affecting flux in membrane distillation 77(1990)279

P.A. Hogan, Sudjito, A.G. Fane and G.L. Morrison
Desalination by solar heated membrane distillation 81(1991)81

A. Vaid, C. Kopp, W. Johnson and A.G. Fane
Integrated waste water treatment by coupled bioreactor and membrane system 83(1991)137

A.G. Fane
Membranes for water production and wastewater reuse 106(1996)1

S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider
Aspects of microfiltration and reverse osmosis in municipal wastewater reuse 106(1996)25

Fang Yifei

Q. Li, Y. Fang and M.E. Green
Edge effects and orientation effects in electrodialysis 41(1982)47

Fantauzzi F.

G. Del Re, F. Fantauzzi, G. Di Giacomo and V. Mucciante
Enthalpy of dilution of aqueous CaCI2 solutions at 308.15 K 107(1996)199

Fantini F.

R. Zannoni, F. Fantini, M. Haruni, T. Abu Ihweig and G. Boari
Reverse osmosis desulphation pretreatment: new prototype application 54(1985)333

G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar 66(1987)443

Farag A. O.

M.A. Mandil, S.H. Eissa, A.O. Farag, A. El-Nikhely, F. Abdel Salam and A.M. Al-Taweel
Reciprocating plate reactors for water reuse 47(1983)275

Farid M. M.

M. Farid and A.W. Al-Hajaj
Solar desalination with a humidification-dehumidification cycle 106(1996)427

N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi
A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan 109(1997)277

Fariñas M.

M. Fariñas, J.M. Granda, L. Gurtubai and M.J. Villagra
Pilot experiences on the recovery of polluted reverse osmosis membranes 66(1987)385

Farooq S.

H.A. Kharajian, R.H. Siddiqi and S. Farooq
Chemical treatment for reuse of wastewater effluents in Saudi Arabia 38(1981)437

S. Farooq and Z.I. Ansari
Philosophy of water reuse in Islamic perspective 39(1981)273

Farrag M. F.

M.H.A. El-Saie, M.F. Farrag and M.H. Erfan
Computer supervisory control of multi stage flash evaporator 55(1985)107

Farran K.M.

M.A.K. Al-Sofi, M.A. Al-Hussain, A.A.A. Al-Omran and K.M. Farran
A full decade of operating experience on Al-Khobar-II multi-stage flash (MSF) evaporators (1982-1992) 96(1994)313

Fast P.

J.J. Schröder, P. Fast and W. Sander-Beuermann
Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators 31(1979)19

Fath H.E.S.

H.E.S. Fath
High performance of a simple design, two effect solar distillation unit 107(1996)223

Fathalah K. A.

M.A. Darwish, K.A. Fathalah and S.E. Aly
Comparative study between vapor compression and multi effect boiling desalination systems 45(1983)77

M.A. Darwish, S.E. Aly and K.A. Fathalah
Comparative study between conventional and vapor compression multi-effect desalination systems 49(1984)153

M.M. Elsayed, K. Fathalah, J. Shams and J. Sabbagh
Performance of multiple effect diffusion stills 51(1984)183

K. Fathalah, S.E. Aly, M. Darwish and A. Radhwan
A theoretical study of enhanced condensation over horizontal fluted tubes 65(1987)25

K. Fathalah and S.E. Aly
Theoretical study of a solar powered absorption/MED combined system 82(1991)245

Fatti L. P.

P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
Multidimensional response surfaces in the characterization, comparison and optimization of membranes 61(1987)103

Faup G. M.

M. Picard, G.M. Faup and J.M. Rovel
Advanced treatments. Nice Lingostiere treatment plant 32(1980)149

Favre E.

P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel
Mass transfer analysis of pervaporation through an ion exchange membrane 90(1993)259

Fayad N.

B. Tawabini, H. Kharajian and N. Fayad
Trihalomethanes (THMs) formation in a distillation process 66(1987)403

Fazio M.

R. Borsani, M. Fazio and B. Ferrando
Industrial water production by utilization of a reverse osmosis and an evaporation plant 108(1996)231

Fearn W. A.

D.C. Hicks, W.A. Fearn, C.M. Pleass and D. Staples
Development, testing and the economics of a composite/plastic seawater reverse osmosis pump 73(1989)95

Fechner G.

G. Fechner and R. Pillkahn
Use of variable speed pumps for MSF and RO plants 55(1985)461

Fedele U.

S.N. Gaeta and U. Fedele
Recovery of water and auxiliary chemicals from effluents of textile dye houses 83(1991)183

Fei M.

Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu
The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence) 85(1992)297

Feige N.G.

N.G. Feige
Corrosion resistance of titanium and its alloys in primary water and hot brine environments 5 suppl.(1969)815

N.G. Feige and R.L. Kane
Titanium for sea water distillation tubing 7(1969)17

Feiner I.

M.A. Frommer, I. Feiner, O. Kedem and R. Bloch
The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure 7(1970)393

Feist E. M.

R. Matz and E.M. Feist
Application of solar energy to the solution of some problems of electrodialysis 2(1967)116

Feizlmayr A. H.

I.M.R. Jamjoom, P. Laesser and A.H. Feizlmayr
The Riyadh water transmission system (RWTS) 39(1981)241

Fell C. J. D.

D.E. Wiley, C.J.D. Fell and A.G. Fane
Optimisation of membrane module design for brackish water desalination 52(1985)249

A.G. Fane, C.J.D. Fell and K.J. Kim
The effect of surfactant pretreatment. on the ultrafiltration of proteins 53(1985)37

R.J. Baker, A.G. Fane, C.J.D. Fell and B.H. Yoo
Factors affecting flux in crossflow filtration 53(1985)81

A.G. Fane and C.J.D. Fell
A review of fouling and fouling control in ultrafiltration 62(1987)117

A.G. Fane, R.W. Schofield and C.J.D. Fell
The efficient use of energy in membrane distillation 64(1987)231

K.J. Kim, A.G. Fane and C.J.D. Fell
The performance of ultrafiltration membranes pretreated by polymers 70(1988)229

R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell
Flux and rejection in the ultrafiltration of colloids 70(1988)251

P. Gatenholm, C.J.D. Fell and A.G. Fane
Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions 70(1988)363

R.W. Schofield, A.G. Fane, C.J.D. Fell and R. Macoun
Factors affecting flux in membrane distillation 77(1990)279

Fenton G. G.

G.G. Fenton and J.P. Gerofi
Critical analysis of a proposed solar assisted HTE desalination system 33(1980)211

J.P. Gerofi and G.G. Fenton
Solar distillation: the solar-assisted case 36(1981)189

J.P. Gerofi, G.G. Fenton and E. Mannik
Solar distillation: The solar-driven case 39(1981)83

J.P. Gerofi and G.G. Fenton
Comparison of solar RO and solar thermal desalination systems 39(1981)95

G.G. Fenton and J.P. Gerofi
Desalination in Australia — Past and future 39(1981)399

J.P. Gerofi and G.G. Fenton
A simple, more accurate criterion for economic evaluation of desalination projects 49(1984)255

Feo E.F.

A. Wenner and E.F. Feo
Project financing of desalination facilities 102(1995)119

Fergus I.

T. Bryant, J. Stuart, I. Fergus and R. Lesan
The use of reverse osmosis as a 35,600 m3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia 67(1987)327

J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli
Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia 75(1989)379

Ferguson P. V.

H.P. Roth and P.V. Ferguson
An iIntegrated industrial waste water treatment system using electroflotation and reverse osmosis 23(1977)49

W.S. Finlay and P.V. Ferguson
Design and operation of a turnkey 17,000,000 gpd reverse osmosis water treatment plant: Buwayb, Riyadh V, Saudi Arabia 23(1977)389

P.V. Ferguson
The first decade of commercial reverse osmosis desalting 1968-1978 32(1980)5

Fernández C. A.

C.A. Fernández, B.H. Huerta and F.E. Latapí
Feasibility of seawater desalination to solve water shortage problems of the Salina Cruz (Pemex) refinery 73(1989)61

Fernandez R

R. Fernandez and A.J. Barduhn
Growth rate of ice crystals 3(1967)330

Feron P.

P. Feron and G.S. Solt
The influence of separators on hydrodynamics and mass transfer in narrow cells: Flow visualisation 84(1991)137

Ferrando B.

R. Borsani, M. Fazio and B. Ferrando
Industrial water production by utilization of a reverse osmosis and an evaporation plant 108(1996)231

R. Borsani and B. Ferrando
Ultrafiltration plant for olive vegetation waters by polymeric membrane batteries 108(1996)281

Ferrara C. M.

J.W. Lewis, C.M. Ferrara and I.C. Watson
Desalting oil field by-product water 87(1992)229

Ficco F.

A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci
Desalination plant of 3.8 mgpd at Gela (Sicily) 19(1976)317

Fichtner W.

W. Fichtner
Questions of sea water desalination plant design 3(1967)252

Fidilio G.

A. Franceschini, G. Fidilio and G. Actis
On the relationship between permselective membranes porosity and evaporation rate of the casting solutions 26(1978)37

Field R.W.

A.B. Koltuniewicz and R.W. Field
Process factors during removal of oil-in-water emulsions with cross-flow microfiltration 105(1996)79

Fiessinger F.

F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
Particle motion in a laminar slit flow: a fundamental fouling study 47(1983)221

Figueroa J. L.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Filippov S. N.

S.N. Filippov, A.G. Khomenko and U.L. Zmeev
Start-up of a thermocompression desalting plant without using external heat 4(1968)30

Filteau G.

G. Filteau, C. Whitley and I. Watson
Water reclamation fuels economic growth in Harlingen, Texas. Reclamation of municipal wastewater for industrial process use 103(1995)31

Finan M.A.

A. Harris, M.A. Finan and M.N. Elliot
A theory of the formation of magnesium scales in sea water distillation plants, and means for their prevention 14(1974)325

M.A. Finan, A. Harris and S. Smith
The field assessment of a high temperature scale control additive and its effect on plant corrosion 20(1977)193

G. Spanhaak, M.A. Finan and A. Harris
The application of a high temperature scale control additive to a European MSF plant 23(1977)455

J. Stewart, R. Bom and M.A. Finan
The use of acid and additive. Practical experiences in a multistage flash plant 31(1979)299

M.A. Finan, S. Smith, C.K. Evans and J.W.H. Muir
BELGARD®EV - 15 years' experience in scale control 73(1989)341

J.D. Wilcock and M.A. Finan
Ensuring the safety of additives used in desalination plants to produce potable water: The role of independent approval agencies and comprehensive toxicological and ecotoxical product profiles 97(1994)443

Finke J.

P.J. Selak, J. Finke and A.L. Lindsay
The architect-engineer-constructor's role in future nuclear desalination projects 5 suppl.(1969)847

A. Peled and J. Finke
The joint U.S.-Israel desalination project status report and the impact of rising energy costs on the program 40(1982)217

Finken H.

H. Finken, J. Kaschemekat and J. Mohn
Reverse osmosis: Field trials of a GKSS plate module plant on Baltic Sea water 29(1979)285

H. Finken
Bentonite-stabilized CDA/CTA membranes: I. Improved long-term transport properties 48(1983)207

H. Finken
Bentonite-stabilized CDA/CTA membranes: II. Determination of the transport coefficients lep and lp 48(1983)235

Finlay W. S.

W.S. Finlay and P.V. Ferguson
Design and operation of a turnkey 17,000,000 gpd reverse osmosis water treatment plant: Buwayb, Riyadh V, Saudi Arabia 23(1977)389

Finnegan D. R.

D.R. Finnegan and W.M. Wagner
Process selection guide to seawater desalting 38(1981)29

Finnigan S. M.

S.M. Finnigan and J.A. Howell
The effect of pulsed flow on ultrafiltration fluxes in a baffled tubular membrane system 79(1990)181

Fioravanti F.

A. De Maio, F. Fioravanti and G. Odone
The role of consultant engineers on personnel training and desalination plant operation 30(1979)439

F. Fioravanti, D. Falleni, G. Odone and A. De Maio
Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia 31(1979)155

A. De Maio, F. Fioravanti and G. Odone
A new idea for training operators 39(1981)483

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

Fiorito G.

S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito
Technical and economical evaluation of an MSF solar energy powered desalination plant 31(1979)443

Fischbeck K.

W. Schneider and K. Fischbeck
Crystallization of ice from salt solutions (in German) 5(1968)217

Fischer H.

C. Steymans and H. Fischer
Measurement of the hydrodynamic permeability of membranes with fine pores 6(1969)203

Fischer K. L.

R.C. Harries, D. Elyanow, D.N. Heshka and K.L. Fischer
Desalination of brackish groundwater for a prairie community using electrodialysis reversal 84(1991)109

Fischer S. A.

F.X. McGarvey and S.A. Fischer
Measurements and control in ion exchange installations 59(1986)403

Fisher U.

R. Matz and U. Fisher
A comparison of the relative economics of sea water desalination by vapour compression and reverse osmosis for small to medium capacity plants 36(1981)137

J. Weinberg and U. Fisher
Present and future energy aspects in VC, MED single and dual purpose desalination plants 40(1982)49

U. Fisher
One year of operation of Israel Desalination Engineering's multi-effect distillation U.S. Virgin Islands 44(1983)73

U. Fisher, A. Aviram and A. Gendel
Ashdod multi-effect low temperature desalination plant. Report on year of operation 55(1985)13

Fitzpatrick C.

D. Squire, J. Murrer, P. Holden and C. Fitzpatrick
Disposal of reverse osmosis membrane concentrate 108(1996)143

Fitzsimmons K.M.

J.J. Riley, K.M. Fitzsimmons and E.P. Glen
Halophyte irrigation: An overlooked strategy for management of membrane filtration concentrate 110(1997)197

Fleischman M.

J.C. Watters, E. Klein, M. Fleischman, J.S. Roberts and B. Hall
Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack 60(1986)93

Fleming S. M.

J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona
Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes 5(1968)359

Fleming W.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

Flemmer R. L. C.

R.L.C. Flemmer, C.A. Buckley and G.R. Groves
An analysis of the performance of a spiral wound ultrafiltration membrane, with a turbulence-promoting net 41(1982)25

C.A. Buckley, R.L.C. Flemmer and G.R. Groves
Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents 47(1983)171

R.L.C. Flemmer
Performance of a spiral wound ultrafiltration membrane with turbulence promoting net under conditions of strong pressure gradient and fouling 48(1983)321

R.L.C. Flemmer, C.A. Buckley and G.R. Groves
The arrangement of spiral-wound ultrafiltration modules 61(1987)159

J.W. Hunt, K. Treffry-Goatley, R.L.C. Flemmer, J.D. Raal and C.A. Buckley
A mathematical model of steady-state cross-flow microfiltration in a woven hose support 61(1987)187

Flemming H.-C.

H.-C. Flemming and G. Schaule
Biofouling on membranes — A microbiological approach 70(1988)95

Flint O.

O. Flint
Increased solubility of calcium sulphate in sea water containing hydrochloric acid 4(1968)328

O. Flint and M.N. Elliot
Scale formation in sea water distillation plants 5(1968)5

O. Flint
Scales from phosphate treated sea water 6(1969)319

Flitman M.

A. Süszer, E. Bandel and M. Flitman
Preparation and laboratory evaluation of cellulose-based ion permselective membranes 7(1969)47

Floquet P.

P. Floquet, L. Pibouleau and S. Domenech
Recent trends in process optimization 92(1993)1

Flores A.

R. Flores, A. Flores and L.F. del Castillo
Parameters influencing the characterization of C.A. membrane and a new rejection mechanism 19(1976)221

Flores R.

R. Flores, A. Flores and L.F. del Castillo
Parameters influencing the characterization of C.A. membrane and a new rejection mechanism 19(1976)221

Flower J. R.

S.C. Bikos and J.R. Flower
Preliminary design and energy analysis of evaporative desalination cascades 81(1991)483

Floyd F. X.

F.X. Floyd
A water treatment and reuse program in Riyadh, Saudi Arabia 30(1979)321

Focke W. W.

W.W. Focke and P.G.J.M. Nuijens
Velocity profile caused by a high porosity spacer between parallel plates (membranes) 49(1984)243

Fokin M. N.

O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova
Corrosion behaviour of aluminium-base alloys in desalination plants 73(1989)457

Folmer H. C.

J.C. Schippers, H.C. Folmer, J. Verdouw and H.J. Scheerman
Reverse osmosis for treatment of surface water 56(1985)109

Fong H. L.

H.L. Fong, C.J. King and H.H. Sephton
Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant 16(1975)15

Forester R.

J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
Nanofiltration membranes broaden the use of membrane separation technology 70(1988)77

Forgach D. J.

D.J. Forgach, G.D. Rose and N.E. Luteneske
Characterization of composite membranes by their non-equilibrium thermodynamic transport parameters 80(1991)275

Forgacs C.

T. Bejarano, C. Forgacs and J. Rabinowitz
Further developments in the high temperature electrodialysis 3(1967)129

E.A.J. Mroz
Scale prevention via quench dilution 3(1967)135

C. Forgacs, L. Koslowsky and J. Rabinowitz
The desalination of sea water by high temperature electrodialysis 5(1968)349

C. Forgacs
The structural polarization in some ion exchange membranes during continued transfer of direct current 7(1969)111

C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler
Polarization at ion-exchange membranes in electrodialysis 10(1972)181

C. Forgacs
The mapping of Faradic efficiencies in large electrodialysis units 10(1972)287

R. Messalem, C. Forgacs and O. Kedem
New developments in polyethylene-based membranes 24(1978)93

C. Forgacs
Recent developments in the utilization of salinity power 40(1982)191

Forgan R.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

Forsyth D. K.

D.K. Forsyth and M. Takada
Low temperature reheat distilling plant 31(1979)145

Foscolo P. U.

D. Barba, V. Brandani, G. Di Giacomo and P.U. Foscolo
Magnesium oxide production from concentrated brines 33(1980)241

D. Barba, V. Brandani and P.U. Foscolo
A method based on equilibrium theory for a correct choice of a cationic resin in sea water softening 48(1983)133

Fosselard G.

G. Fosselard and K. Wangnick
Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m3/d and 3,000 m3/d. 76(1989)215

Fouda A. E.

Shi Qiu Zhang, A.E. Fouda, T. Matsuura and Kam Chan
Some experimental results and design calculations for reverse osmosis concentration of green tea juice 80(1991)211

A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura
Membrane separation of low volatile organic compounds by pervaporation and vapor permeation 90(1993)209

Fountoukidis E.

E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris
Modeling of calcium sulphate fouling of reverse osmosis membranes 72(1989)293

E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris
Crystallization of calcium sulfate on reverse osmosis membranes 79(1990)47

Fournier J.

J. Fournier, J.L. Grange and S. Vergara
Water desalination by natural freezing 15(1974)167

Fowler R. T.

M.J. Clifton and R.T. Fowler
Treatment by reserve osmosis of certain solutions containing two solutes, one organic and one inorganic 34(1980)25

Fox R.L.

R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
Spiral-wound poly(ether/amide) thin-film composite membrane systems 19(1976)113

Franceschini A.

A. Franceschini, G. Fidilio and G. Actis
On the relationship between permselective membranes porosity and evaporation rate of the casting solutions 26(1978)37

Franchini V.

V. Franchini
Maintenance activity for partial intervention of retubing on four distillers multi-flash double-deck (capacity 3 mgd for each unit) of Abu Dhabi power station after 18 years of operation activity 108(1996)295

Frank G.

J. Adar, D. Caplin, G. Frank and O. Tavory
Preliminary study of a desalination-power-industrial complex in Israel 5 suppl.(1969)757

Frank K. F.

J.A. Redondo and K.F. Frank
Sea water applications with FILMTEC reverse osmosis membranes from small to large plants in 10 years 82(1991)31

Franke M.

R. Rautenbach, C. Herion and M. Franke
Dehydration of multicomponent organic systems by a reverse osmosis pervaporation-hybrid process module-, process design and economics 70(1988)445

Franken A. C. M.

K. Smolders and A.C.M. Franken
Terminology for membrane distillation 72(1989)249

Franklin J. C.

A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody
Yuma Desalting Plant. Membrane degradation during test operations 88(1992)33

A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody
Controlling loss of salt rejection and water flux at the Yuma Desalting Plant 96(1994)421

Franquelin B.

B. Franquelin, F. Murat and C. Temstet
Application of the multi-effect process at high temperature for large seawater desalination plants 45(1983)81

Franzosi C.

G. Carolei, C. Franzosi and M. Jemma
Dessalement de l'eau de mer et production d'énergie électrique: résultats d'exploitation des installations de l'Italsider à Tarente 5 suppl.(1969)111

L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi
Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems 31(1979)457

Fraser J. H.

J. H. Fraser
Absorption freezing vapor compression: process selection, pilot plant design, process economics 33(1980)85

Fredkin E.

E. Fredkin
New concepts in energy savings and process control for desalination plants using reverse osmosis 65(1987)321

E. Fredkin and R. Banks
Computerized instrumentation and control for reverse osmosis systems 75(1989)141

Freeman N.

S.D.N. Freeman and O.J. Morin
Recent developments in membrane water reuse projects 103(1995)19

Freeman S. D. N.

S.D.N. Freeman and T.F. Stocker
Comparison of two thin-film composite membranes: Low pressure FT-30 to very low pressure NF40HF 62(1987)183

R. Larson, W. Albers, J. Beckman and S. Freeman
The carrier-gas process — a new desalination and concentration technology 73(1989)119

S.D.N. Freeman and R.J. Majerle
Silica fouling revisited 103(1995)113

Freilich D.

D. Freilich and G.B. Tanny
Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) — polyacrylate membranes 27(1978)233

French M.

R. van Oorschot and M. French
Wastewater 2040 — Alternative effluent disposal and reuse options for Perth and southern regions 106(1996)157

Frenkel V.

V. Frenkel and T. Gourgi
Brakish water RO desalination plant in the Gaza Strip 101(1995)47

Friedman M. A.

B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf
The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog 87(1992)97

Friedrich C.

C. Friedrich, A. Driancourt, C. Noël and L. Monnerie
Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone 36(1981)39

Fries S.

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects 31(1979)501

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience 39(1981)125

F. Patocka, S. Fries and H. Timm
RO-module with ultrasonic welded membranes 64(1987)423

Fritsch D.

D. Fritsch, K.-V. Peinemann and R.-D. Behling
Silicon/non-silicone grafted blend composite membranes for air/vapor separation 90(1993)235

Fröhner K. R.

K. R. Fröhner
Evaluation of the calcium diminution in the circulated brine of a BSS-MSF plant 16(1975)157

K.R. Fröhner and H. Panahandeh
An advanced seeding process in saline water conversion 16(1975)261

F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh
The barium sulfate seeding process 21(1977)59

K.R. Fröhner
Behaviour of some desalination plant materials under severe conditions: copper alloys, stainless steels, titanium, and plastics 21(1977)147

Froment T.

J. de Gunzbourg and T. Froment
Construction of a solar desalination plant (40cum/day) for a French Caribbean Island 67(1987)53

M.A. Darwish, N.M. Al-Najem, T. Froment and J. de Gunzbourg
The Kuwait University Pilot Plant: A single multi-effect plant to study the variation of evaporation parameters at different temperatures 74(1989)277

Frommer M. A.

R. Bloch and M.A. Frommer
The mechanism for formation of "skinned" membranes. I. Structure and properties of membranes cast from binary solutions 7(1970)259

M.A. Frommer, I. Feiner, O. Kedem and R. Bloch
The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure 7(1970)393

U. Rosenthal, J. Nechushtan, A. Kedem, D. Lancet and M.A. Frommer
An apparatus for studying the mechanism of membrane formation 9(1971)193

A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer
A miniature reverse osmosis/ultrafiltration system 24(1978)305

Fu P.

P. Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg
A pilot study on groundwater natural organics removal by low-pressure membranes 102(1995)47

Fujii K.

Y. Nojiri and K. Fujii
Utilization of cement concrete as an evaporator shell material 19(1976)45

Y. Tazawa, Y. Nojiri and K. Fujii
Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities 22(1977)111

Fujii S.

J. Saito and S. Fujii
Water re-use by ultrafiltration in individual building 23(1977)183

Fujii T.

O. Miyatake, T. Tomimura, Y. Ide and T. Fujii
An experimental study of spray flash evaporation 36(1981)113

O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii
Effect of liquid temperature on spray flash evaporation 37(1981)351

Fujioka T.

M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka
Small-scale sewage plant experiment by pretreatment and methanization of suspended solid 98(1994)217

M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka
Treatment of concentrated cyanide wastewater 98(1994)345

Fujioka Y.

Y. Fujioka, M. Soda, M. Zama and I. Shimizu
Prevention of the scale trouble of multi-effect stacked desalination plant 73(1989)371

Fujita K.

Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa
Study on fouling materials in the membrane treatment process for potable water 106(1996)71

S. Takizawa, K. Fujita and K.H. Soo
Membrane fouling decrease by microfiltration with ozone scrubbing 106(1996)423

Fujiumoto M.

T. Uragami, M. Fujimoto and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid) 34(1980)311

Fujiwara N.

N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi
The effect of heavy metal ions on the oxidation of cellulose triacetate membranes 96(1994)431

N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto
The reference and analysis of a double-element type hollow fiber RO module in seawater desalination 96(1994)441

A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis 96(1994)451

Fukami T.

T. Fukuda, T. Fukami, Y. Baba and K. Honma
Clad steel for seawater service 97(1994)121

Fukuda T.

Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama
Performance of reverse osmosis membrane in Jeddah Phase I plant 96(1994)215

N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto
The reference and analysis of a double-element type hollow fiber RO module in seawater desalination 96(1994)441

T. Fukuda, T. Fukami, Y. Baba and K. Honma
Clad steel for seawater service 97(1994)121

Fukumoto T.

H. Miyoshi, T. Fukumoto and T. Kataoka
A consideration on flow distribution in an ion exchange compartment with spacer 42(1982)47

H. Miyoshi, T. Fukumoto and T. Kataoka
An equation for estimating the diffusion coefficient of electrolytes in ion exchange membranes 48(1983)43

Fukumoto Y.

Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas
The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai 83(1991)65

Fukuzuka T.

K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka
Corrosion resistance of titanium in MSF desalination plant 22(1977)403

T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo
Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube 31(1979)389

Fuls P. F.

P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
Multidimensional response surfaces in the characterization, comparison and optimization of membranes 61(1987)103

Fumagalli B.

G. Migliorini, B. Fumagalli and S. Arazzini
Theoretical approach to MSF stages efficiency calculation 55(1985)185

B. Fumagalli and E. Ghiazza
Mathematical modelling and expert systems integration for optimum control strategy of MSF desalination plants 92(1993)281

B. Fumagalli and E. Ghiazza
Mathematical modelling and expert system integration for optimum control strategy of MSF desalination plants 97(1994)547

Funahashi S.

H. Satone, S. Funahashi and S. Inoue
Experiences on VTE distillation plants in Japan 22(1977)169

Funk E.W.

R. Vega and E.W. Funk
Solid-liquid equilibria in concentrated aqueous salt solutions — Systems with a common ion 15(1974)225

Fuqua T. M.

T.M. Fuqua, P.T. Bowen and R.S. Ortiz
Using reclaimed water for shallow aquifer recharge 88(1992)243

Furby E.

E. Furby, E. Glueckauf and L.A. McDonald
The solubility of calcium sulphate in sodium chloride and sea salt solutions 4(1968)264

Furukawa D. H.

G.A. Milton and D.H. Furukawa
High recovery reverse osmosis with strontium sulfate in a brackish well water source 22(1977)335

Furuki A.

A. Furuki, K. Hamanaka, M. Tatsumoto and S. Inohara
Automatic control system of MSF process (Acsode®) 55(1985)77

Furuta I.

T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino
Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis 32(1980)93

Fusaoka Y.

M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura
Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination 96(1994)133

Fusetti F.

A. Massarani and F. Fusetti
Some design and monitoring criteria for large/medium MSF plants 92(1993)377

Futakawa M.

M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka
Treatment of concentrated cyanide wastewater 98(1994)345

Futamura O.

O. Futamura, M. Katoh and K. Takeuchi
Organic waste water treatment by activated sludge process using integrated type membrane separation 98(1994)17

Futamura S.

S. Toyama, M. Nakamura, H.M. Salah, S. Futamura and K. Murase
Laboratory test of solar distillator with a heat penetrating plate having a bend 67(1987)67

Futselaar H.

H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz
Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration 90(1993)345

Gabbrielli E.

E. Gabbrielli and A. Ripasarti
A study on Posidonia residue in seawater intakes 30(1979)127

E. Gabbrielli
Optimal selection of major equipment in dual purpose plants 36(1981)1

E. Gabbrielli
A tailored process for remineralization and potabilization of desalinated water 39(1981)503

E. Gabbrielli
The impact of desalinated water quality on energy costs 40(1982)391

E. Gabbrielli and J.P. Gerofi
Appropriate mineral content of desalinated water — Theory and drinkers' reaction 45(1983)357

E. Gabbrielli and J.P. Gerofi
Appropriate mineral content of desalination water: theory and drinkers' reactions. Part I 49(1984)95

J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli
Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia 75(1989)379

B. Watson, G. Marks, E. Gabbrielli and L. Chapple
Design and operation of a 5 ml/d RO desalination plant in arid Australia 96(1994)369

P. Wong, P. Docker, E. Gabbrielli and P. Wade
Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia 98(1994)225

Gabris A. H.

A.H. Ghabris, M. Abdel-Jawad and G.S. Aly
Municipal wastewater renovation by reverse osmosis. State of the art 75(1989)213

Gada M. K.

M.M. Tare, M.K. Gada, M.A. Siddiqui and M.H. Mehta
Economics of desalination in water resource management — A comparison of alternative water resources for arid/semi arid zones in developing countries 81(1991)57

Gadani V.

V. Gadani, R. Irwin and V. Mandra
Ultrafiltration as a tertiary treatment: Joint research program on membranes 106(1996)47

Gaddis J. L.

C.A. Brandon and J.L. Gaddis
Full-scale demonstration of hyperfiltration for closed-cycle textile dyeing facility 23(1977)19

Gaeta S. N.

S.N. Gaeta, H. Zhang, E. Drioli and A. Basile
Polyorganophosphazene membranes: Preparation and transport properties 80(1991)181

S.N. Gaeta and U. Fedele
Recovery of water and auxiliary chemicals from effluents of textile dye houses 83(1991)183

S.N. Gaeta, E. Petrocchi, E. Negri and E. Drioli
Chlorine resistance of polypiperazineamide membranes and modules 83(1991)383

Gaffoglio C. J.

N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio
Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand 38(1981)223

C.J. Gaffoglio
Comments on erosion-corrosion of copper alloy C72200 in seawater containing suspended sand 42(1982)345

Gagliardi R.

R. Molinari, R. Gagliardi and E. Drioli
Methodology for estimating saving of primary energy with membrane operations in industrial processes 100(1995)125

Gajendran N.

A.G. Turner, P.S. Neelakantan and N. Gajendran
A novel new water source for Madras Fertilisers Ltd. 98(1994)285

Galal S.

S. Galal and A.A. Husseiny
Status of desalination research and technology in the Middle East 20(1977)217

Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal
Prospects of the exploitation of advanced energy resources in water production in the Middle East 20(1977)279

Galpin J. S.

P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
Multidimensional response surfaces in the characterization, comparison and optimization of membranes 61(1987)103

Galstaun L.

W.K. Davis, L. Galstaun and C. Sharpf
Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California 2(1967)227

Gamson B. W.

J.A.S. Green, B.W. Gamson and W.F. Westerbaan
Experience with desalination plants containing titanium heat exchange tubing 22(1977)359

Gandellini A.

A. Cassinari, A. Gandellini and A. Vaudo
Conception et implantation du réacteur ROVI: pour le dessalement de l'eau de mer 5 suppl.(1969)297

Gandhidasan P.

P. Gandhidasan and H.I. Abualhamayel
A simple analysis of solar desalination of seawater 99(1994)137

Ganzi G. C.

W.A. McRae, E.J. Parsi and G.C. Ganzi
Fresh water from the sea: a 380 cubic meter per day high temperature electrodialysis plant 23(1977)401

Gao Congjie

Xue-Ren Lu, Cong-Jie Gao and Xiu-Zhen Sun
Reinforced and dry polysulfonamide membranes 54(1985)207

Gao Congjie, Lu Xueren and Sun Xiuzhen
Pore size control in the preparation of PAN membranes 62(1987)89

Lu Xueren and Gao Congjie
Characteristics of PFI composite reverse osmosis membrane 62(1987)203

Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie
Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes 62(1987)353

Gao Conjie
A preliminary plan for membrane desalination in China 69(1988)61

Gao Congjie, Lu Xueren and Bao Zhiguo
Polysulfone amide (PSA) asymmetric reverse osmosis membrane 83(1991)271

Xueren Lu and Congjie Gao
Research on polyethersulfone, polyarylsulfone and polyetheretherketone with cardo membranes 96(1994)155

Gao Yiyuan

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Ling Ai-lian, Gao Yi-yuan and Wang Zhi-zhong
The influence of different types of metal complex on the transitivity of reverse osmosis membranes 62(1987)377

Garbe Th.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Garcia A.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Garcia J. M.

J.M. Sanchez and J.M. Garcia
Experiments on the design, installation and operation of desalination plants by O.I. - Inalsa I 82(1991)119

Gardner C.R.

C.R. Gardner, J.N. Weinstein and S.R. Caplan
Transport properties of charge-mosaic membranes. III. Piezodialysis 12(1973)19

Gardner J.O.

R.L. Riley, U. Merten and J.O. Gardner
Replication electron microscopy of cellulose acetate osmotic membranes 1(1966)30

Gardner W.A.

W.A. Gardner
Construction and initial operation of a test module for a 50-MGD desalination plant 5 suppl.(1969)127

Garza G.

G. Garza
Polarization in unit cells 24(1978)211

Gasparini L.

L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi
Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems 31(1979)457

L. Gasparini
Relationship between desalination processes and electric energy generation 40(1982)395

Gatenholm P.

P. Gatenholm, C.J.D. Fell and A.G. Fane
Influence of the membrane structure on the composition of the deposit-layer during processing of microbial suspensions 70(1988)363

Gatignol J.

A. Le Grand and J. Gatignol
Seawater pumping stations (in French) 31(1979)173

A. Le Grand, J. Gatignol and J.-F. Lapray
Studies, testing, and development of a line of brine recirculating pumps for sea water desalinization installations 39(1981)351

Gattis D. E.

J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis
Selection, design and procurement of a demineralization system for a surface water treatment plant 88(1992)3

Gaur P. M.

M.N. Prajapati, P.M. Gaur and B.D. Dasare
Water-softening by continuous counter-current ion-exchange single column technique 48(1983)281

M.N. Prajapati, P.M. Gaur and B.D. Dasare
Brackish water desalination by a continuous counter-current ion exchange technique 52(1985)317

Gaussens J.

Z. Pelled and J. Gaussens
Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C. 1(1966)5

F. Dutheil and J. Gaussens
Cost of water and desalination of sea water: Characteristics of supply and demand (in French) 2(1967)234

J. Gaussens
Les conditions de concurrence entre le production d'eau par dessalement et les ressources naturelles 5 suppl.(1969)605

Gavach C.

A. Elmidaoui and C. Gavach
NaCl diffusion across an amphoteric ion exchange membrane 78(1990)343

G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach
Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid 80(1991)193

D. Raucq, G. Pourcelly and C. Gavach
Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane 91(1993)163

A. Lindheimer, M. Boudet-Dumy and C. Gavach
Electrodialysis of hydrochloric acid 94(1993)151

A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach
Transfer of H2SO4, Na2SO4 and ZNSO4 by dialysis through an anion exchange membrane 101(1995)39

K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
Elimination of nitrate from drinking water by electrochemical membrane processes 101(1995)123

A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach
Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons 101(1995)141

S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach
Continuous electropermutation with ion-exchange textiles 104(1996)227

M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui
Chronopotentiometric response of a cation exchange membrane in contact with chromium(III) solutions 105(1996)219

S. Graillon, F. Persin, G. Pourcelly and C. Gavach
Solving equations simulating the steady-state behavior of the multi-stage flash desalination 107(1996)159

Y. Lorrain, G. Pourcelly and C. Gavach
Transport mechanism of sulphuric acid through an anion exchange membrane 109(1997)231

Gavish B.

S. Reich, B. Gavish and S. Lifson
Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane 24(1978)295

Gaydos G.G.

R.A. Tidball and G.G. Gaydos
High-temperature desalination plants for nuclear-power stations 5 suppl.(1969)495

Gaydos J.G.

Y. Murayama, T. Kasamatsu and J.G. Gaydos
Live seawater experience in Japan with hollow fiber permeators 19(1976)439

T. Kasamatsu and J.G. Gaydos
Reverse osmosis desalting plant for industrial water at Kashima in Japan 20(1977)335

M. Takada, S. Kikuchi and J. Gaydos
Reheat type distilling plant 20(1977)385

Gayler R.

J.R. Grover, R. Gayler and M.H. Delve
Development and field trial evaluation of a new reverse osmosis module system 14(1974)93

Gazit E.

E. Gazit and D. Hasson
Scale deposition from an evaporating falling film 17(1975)339

Gazzabin F.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

Gebel J.

R. Rautenbach and J. Gebel
Studies on the behaviour of high performance multiple-effect-stack processes 65(1987)75

R. Rautenbach and J. Gebel
On the concentration of RO-brines by seeded horizontal tube falling film evaporation (HTFE) 76(1989)107

Gebhardt F.

F. Gebhardt and J. Maschlanka
Possible applications of fuzzy controllers for chemical phosphate elimination 96(1994)89

Geigl K.-H.

K.-H. Geigl and R.P. Malhotra
Glass fiber reinforced plastic applications for corrosive environments in desalination- and power plants, and for water treatment 44(1983)307

Geiselhart G.

W. Höll and G. Geiselhart
Kinetics of the neutralisation of weak acid ion-exchange resins with different solutions 25(1978)217

Gekas V.

V. Gekas, B. Hallström and G. Trägårdh
Food and dairy applications: The state of the art 53(1985)95

V. Gekas
Terminology for pressure-driven membrane operations 68(1988)77

G. Trägårdh and V. Gekas
Membrane technology in the sugar industry 69(1988)9

V. Gekas and B. Hallström
Microfiltration membranes, cross-flow transport mechanisms and fouling studies 77(1990)195

Gen YunPeng

Gen Yun-Peng
Preparation of charged micro-mosaic membrane via radiation-induced grafting of styrene and methyl methacrylate onto Teflon FEP films 62(1987)265

Gendel A.

A. Gendel
Desalination at inland sites 40(1982)135

U. Fisher, A. Aviram and A. Gendel
Ashdod multi-effect low temperature desalination plant. Report on year of operation 55(1985)13

A. Ophir and A. Gendel
Adaptation of the multi-effect distillation (MED) process to yield high purity distillate for utilities, refineries and chemical industry 98(1994)383

Genthner K.

K. Genthner and M. El-Allawy
Assessment of MSF-evaporator design with reduced cooling water requirements 31(1979)57

K. Genthner and M.M. El-Allawy
Solutions for coupling a mechanical vapour compression distiller with a multi-stage-flash evaporator 45(1983)143

K. Genthner, S. Khalaf, W. Ruehle and A. Seifert
The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers 65(1987)171

A. Seifert and K. Genthner
A model for stagewise calculation of non-condensable gases in multi-stage evaporators 81(1991)333

K. Genthner and A. Seifert
A calculation method for condensers in multi-stage evaporators with non-condensable gases 81(1991)349

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

K. Genthner, A. Gregorzewski and A. Seifert
The effects and limitations issued by non-condensible gases in sea water distillers 93(1993)207

H. Morsy, D. Larger and K. Genthner
A new multiple-effect distiller system with compact heat exchangers 96(1994)59

George A. R.

A.R. George and B. Tyler
Control and instrumentation experience at Lok on Pai MSF seawater desalination plant 39(1981)35

George D. E.

D.E. George
Prediction of silica scale formation in RO systems 47(1983)161

George O.

L.V. Sadler and O. George
Concentration of saline produced water from coalbed methane gas wells in a multiple-effect evaporator using waste heat from the gas compressor and compressor drive engine 101(1995)169

Georgieva M.

I. Dobrevsky and M. Georgieva
Some possibilities for solar evaporation intensification 45(1983)93

Georgieva V.

V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev
Condensate re-use by ultrafiltration oil removal 83(1991)195

Gerdes L.

T. Hamano, P.B. Chebi, L. Gerdes and T.D. Wolfe
The development of a new electrodialysis system for brackish water 96(1994)23

Gerke H.

F.G. Abbosh, I. Kamal, S. Chalchal and H. Gerke
Design and performance of the world's largest operating dual-purpose sea water desalting plant 45(1983)223

Germana A.

D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri
Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants 19(1976)15

D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti
Qatar desalination plants 26(1978)109

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Design and operation of 2 x 2.5 mgd Bahrain desalination plants 26(1978)117

D. Barba, A. Germana and G. Tagliaferri
Analysis of very large MSF desalination units 30(1979)553

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Analysis of large desalination plants 33(1980)1-10, Err. 30(1979)553

R. Borsani, P. Bozzini, A. Germanà, P. Peluffo and A. Al Radif
12 migd multistage flash desalination plant. A challenge for the next years 96(1994)325

Gerner F. J.

B. Bauer, F.J. Gerner and H. Strathmann
Development of bipolar membranes 68(1988)279

Gerofi J. P.

G.G. Fenton and J.P. Gerofi
Critical analysis of a proposed solar assisted HTE desalination system 33(1980)211

J.P. Gerofi and G.G. Fenton
Solar distillation: the solar-assisted case 36(1981)189

J.P. Gerofi, G.G. Fenton and E. Mannik
Solar distillation: The solar-driven case 39(1981)83

J.P. Gerofi and G.G. Fenton
Comparison of solar RO and solar thermal desalination systems 39(1981)95

G.G. Fenton and J.P. Gerofi
Desalination in Australia — Past and future 39(1981)399

E. Gabbrielli and J.P. Gerofi
Appropriate mineral content of desalinated water — Theory and drinkers' reaction 45(1983)357

J.P. Gerofi
The Sydney University solar desalination pilot plant design 45(1983)375

E. Gabbrielli and J.P. Gerofi
Appropriate mineral content of desalination water: theory and drinkers' reactions. Part I 49(1984)95

J.P. Gerofi and G.G. Fenton
A simple, more accurate criterion for economic evaluation of desalination projects 49(1984)255

Gerrard G.

R. El-Assar, G. Jung and G. Gerrard
Design features of seawater intake, distribution and outfall systems, applied to the Ruwais Utilities Complex, Abu Dhabi 45(1983)115

Ghabris A. H.

I.M. Alatiqi, A.H. Ghabris and S. Ebrahim
System identification and control of reverse osmosis desalination 75(1989)119

Ghafour E.

R. Rautenbach and E. Ghafour
On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants 31(1979)521

Ghatge N. D.

S.S. Mahajan, M.B. Sabne, K.B. Gujar and N.D. Ghatge
Modification of cellulose acetate by propylene oxide 52(1985)327

M.D. Satre and N.D. Ghatge
Aromatic polyamide-hydrazides for water desalination. II. RO membrane performance of terpolymers 91(1993)121

M.V. Biware and N.D. Ghatge
Studies in piperazine containing poly(sulphone-amide)s for use in water desalination 101(1995)93

Ghiazza E.

S. Rebagliati, E. Ghiazza and K.S. Abueida
One year operational experience on the process control system at UANE MSF Desalination Plant 75(1989)149

B. Fumagalli and E. Ghiazza
Mathematical modelling and expert systems integration for optimum control strategy of MSF desalination plants 92(1993)281

B. Fumagalli and E. Ghiazza
Mathematical modelling and expert system integration for optimum control strategy of MSF desalination plants 97(1994)547

E. Ghiazza and F. Giovani
A general tool for a better use of design or verification of mathematical models 105(1996)51

Ghiglio G.

P. Gioli, G.E. Silingardi and G. Ghiglio
High quality water from refinery waste 67(1987)271

Ghulaigah see H. E. A. Al-Gholaikah

H.E.A. Ghulaigah and B. Ericsson
Riyadh's reverse osmosis water treatment plants — The largest demineralization complex in the world 30(1979)301

Giannuzzi L. F.

L.F. Giannuzzi, O.E. Horn and M. Nakhamkin
Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements 39(1981)437

Gianotti G.

P. Mappelli, M. Santori, A. Chiolle and G. Gianotti
Membrane processes used for the treatment of industrial effluents 24(1978)155

A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini
Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets 26(1978)3

Gibson W.

W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone
Spray freezer and pressurized counterwasher for freeze desalination 14(1974)249

G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson
Development of a eutectic freezing process for brine disposal 15(1974)25

Gill A. L.

B.R. Min, A.L. Gill and W.N. Gill
A note on fluoride removal by reverse osmosis 49(1984)89

W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee
Flow patterns in radial flow hollow fiber reverse osmosis systems 68(1988)11

Gill J. S.

J.S. Gill and G.H. Nancollas
The growth of gypsum crystals on barite and calcite 29(1979)247

J.S. Gill and R.G. Varsanik
Precipitation equilibrium during evaporation of water containing high dissolved salts 60(1986)1

Gill W.N.

R.A. Shaw, R. Deluca and W.N. Gill
Reverse osmosis: Increased productivity by reduction of concentration polarization in laminar flow reverse osmosis using intermediate non-rejecting membrane sections 11(1972)189

M. Soltanieh and W.N. Gill
An experimental study of the complete-mixing model for radial flow hollow fiber reverse osmosis systems 49(1984)57

B.R. Min, A.L. Gill and W.N. Gill
A note on fluoride removal by reverse osmosis 49(1984)89

W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee
Flow patterns in radial flow hollow fiber reverse osmosis systems 68(1988)11

D. Mukherjee, A. Kulkarni and W.N. Gill
Chemical treatment for improved performance of reverse osmosis membranes 104(1996)239

Gillam W. S.

W.S. Gillam and W.H. McCoy
Desalination research 2(1967)13

W.S. Gillam and H.E. Podall
Recent developments on the reverse osmosis process for desalination 9(1971)201

Gilron J.

J. Gilron and D. Hasson
Analysis of laminar flow precipitation fouling on reverse osmosis membranes 60(1986)9

J. Borden, J. Gilron and D. Hasson
Analysis of RO flux decline due to membrane surface blockage 66(1987)257

Gimbel R.

P. Lipp, B. Görge and R. Gimbel
A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis 79(1990)203

Ginde V.R.

V.R. Ginde and C. Chu
An apparatus for desalination with ion-exchange resins 10(1972)309

Gioli P.

P. Gioli, G.E. Silingardi and G. Ghiglio
High quality water from refinery waste 67(1987)271

Giovani F.

E. Ghiazza and F. Giovani
A general tool for a better use of design or verification of mathematical models 105(1996)51

Girgis F.

A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant 44(1983)17

Gisser D.

A. Zelman, D. Walsh, H. Wayt and D. Gisser
Rapid filtration of non-electrolytes by electroosmosis 25(1978)253

Gittens G.J.

G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope 8(1970)369

G.J. Gittens, P.A. Hitchcock and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope 12(1973)315

Giudice

R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant 82(1991)337

Giuffrida

L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi
Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems 31(1979)457

Giuliani L.

L. Giuliani and R. Cigna
Corrosion problems of copper alloys in desalination plants 22(1977)379

R. Cigna, A. De Maio, L. Giuliani and G. Gusmano
Acid cleaning and passivation of power plant condensers and desalination plants 38(1981)269

L. Giuliani
Pre-service corrosion control in multiflash desalination plants 38(1981)295

R. Cigna, L. Giuliani and G. Gusmano
Continuous corrosion monitoring in desalination plants 55(1985)219

Giuliano G.B.

A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern
The rate of formation of the hydrates of F-31 (CH2CIF) and F-142b (CH3CCIF2) in a stirred tank reactor 18(1976)59

Gladwin R.P.

C. Bates, R.P. Gladwin and L. McGrath
Desalination in pilot scale column crystallizers 21(1977)83

Glass W.

W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander
Recent developments in electrodialysis at elevated temperatures 4(1968)236

Glater J.

R. Dooly and J. Glater
Alkaline scale formation in boiling sea water brines 11(1972)1

J. Glater, K.S. Murdia and R. Dooly
Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation 14(1974)197

J. Glater and S. McCray
Changes in water and salt transport during hydrolysis of cellulose acetate reverse osmosis membranes 46(1983)389

J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan
Reverse osmosis membrane sensitivity to ozone and halogen disinfectants 48(1983)1

R. Cheng, J. Glater, J.B. Neethling and M.K. Stenstrom
The effects of small halocarbons on RO membrane performance 85(1991)33

J. Glater, S.-K Hong and M. Elimelech
The search for a chlorine-resistant reverse osmosis membrane 95(1994)325

Glaze F. J.

H. Boehmer and F.J. Glaze
Better MSF plant performance by avoiding tube fouling and debris 55(1985)429

H. Boehmer and F.J. Glaze
Debris separators and filters for different desalination systems 55(1985)559

Glen E.P.

J.J. Riley, K.M. Fitzsimmons and E.P. Glen
Halophyte irrigation: An overlooked strategy for management of membrane filtration concentrate 110(1997)197

Glen J. S.

J.S. Glen and D.S. McDougall
Desalination using the Canadian SLOWPOKE energy system 64(1987)183

Glimenius R.

R. Glimenius
Membrane processes for water, pulp and paper, food. State of the art 35(1980)259

R. Glimenius
Microfiltration: State of the art 53(1985)363

Glueck A. R.

A.R. Glueck
Desalination by an ion exchange-precipitation-complex process 4(1968)32

Glueckauf E.

E. Glueckauf, L.A. McDonald and P.J. Russell
Sea water softening by osmosis through desalinating membranes 3(1967)155

E. Furby, E. Glueckauf and L.A. McDonald
The solubility of calcium sulphate in sodium chloride and sea salt solutions 4(1968)264

E. Glueckauf and P.J. Russell
The equivalent pore radius of dense cellulose acetate membranes 8(1970)351

E. Glueckauf
The distribution of electrolytes between cellulose acetate membranes and aqueous solutions 18(1976)155

Glueckstern P.

F.S. Aschner, S. Yiftah and P. Glueckstern
Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination 3(1967)82

P. Glueckstern and Y. Kantor
Economic evaluation of using small sized nuclear reactors for seawater desalination 22(1977)101

P. Glueckstern, Y. Kantor and M. Wilf
Application of membrane processes for water supply in Israel 24(1978)365

P. Glueckstern
Comparative economics of current and advanced desalting systems 30(1979)223

P. Glueckstern, M. Wilf and Y. Kantor
Field testing and economic evaluation of RO seawater technology 30(1979)235

P. Glueckstern
Comparative energy requirements and economics of desalting processes based on current and advanced technology 40(1982)63

P. Glueckstern
Preliminary considerations of combining a large reverse osmosis plant with the Mediterranean — Dead Sea project 40(1982)143

P. Glueckstern and Y. Kantor
Seawater vs. brackish water desalting: technology, operating problems and overall economics 44(1983)51

P. Glueckstern
Desalting: Prospects for improvement in technology and reduction in costs 44(1983)105

A. Kaji and M. Murano
Membrane for ethanol-water separation: Water selective membrane 54(1985)351

P. Glueckstern, M. Wilf, J. Etgar and J. Ricklis
Use of microprocessors for control, data acquisition and on line performance evaluation in a reverse osmosis plant 55(1985)469

P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf
Desalination of high salinity brackish water. Low pressure reverse osmosis 58(1986)55

P. Glueckstern
Current and long term considerations for the application of reverse osmosis technology in Israel 58(1986)69

P. Glueckstern
Cost estimates of large RO systems 81(1991)49

P. Glueckstern
Potential uses of solar energy for seawater desalination 101(1995)11

P. Glueckstern and M. Priel
Optimized brackish water desalination plants with minimum impact on the environment 108(1996)19

Gnot W.

M. Turek, J. Mrowiec-Bialon and W. Gnot
Utilization of coal mine brines in the chlorine production process 101(1995)57

Gobbi M.

L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
A desalination process through sweeping gas membrane distillation 64(1987)245

Godfrey, Jr. W.J.

W.J. Godfrey, Jr.
Membrane performance reports on reverse osmosis plants using Permasep® permeators since 1972 22(1977)435

Godino M.P.

M.P. Godino, L. Peña, C. Rincón and J.I. Mengual
Water production from brines by membrane distillation 108(1996)91

Goel V.

J.W. McCutchan and V. Goel
Systems analysis of a multi-stage tubular module reverse osmosis plant for sea water desalination 14(1974)57

J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto
Reclamation of irrigation field drainage water 19(1976)153

Goeldner R. W.

R.W. Goeldner
Scale control inhibitor performance at 100°C under boiling conditions 47(1983)25

Goethaert S.

C. Dotremont, S. Goethaert and C. Vandecasteele
Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes 91(1993)177

Goghari H. D.

G.L. Natu, H.D. Goghari and S.D. Gomkale
Solar distillation plant at Awania, Gujarat, India 31(1979)435

Gökçe H.

C. Özgen and H. Gökçe
Hydrodynamic and heat transfer studies on fluted tubes with drainage discs 45(1983)183

Gold H.

H. Gold, A. Todisco, A.A. Sonin and R.F. Probstein
The Avco continuous moving bed ion-exchange process and large scale desalting 17(1975)97

Goldberg M.

M. Goldberg
Ultrafiltration of effluents from slaughterhouses and brine in the meat industry 35(1980)303

Goldschmidt J. M. E.

A. Cohen, M. Zangen, M. Koenigsbuch and J.M.E. Goldschmidt
Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater 41(1982)215

Goldsmith K.

K. Goldsmith
Integrating dual-purpose plant for power and water production into an existing electricity supply system 5 suppl.(1969)595

Goldsmith R. L.

R.L. Goldsmith, B.A. Wechsler, S. Hara, K. Mori and Y. Taketani
Development of PBIL low pressure brackish-water reverse osmosis membranes 22(1977)311

Goldstein A. L.

A.L. Goldstein
Electrodialysis on the American continent 30(1979)49

Goldstein D. J.

R.F. Probstein and D.J. Goldstein
Desalting technologies for wastewater treatment 19(1976)525

Goliayd N.N.

V.G. Rifert, P.A. Barabash, N.N. Goliayd and E.B. Kurilova
Stand-alone thermal desalination plants 96(1994)183

Gollan A.

A. Gollan and G. Dagan
Effect of porous backing substrates on membrane flux in reverse osmosis systems 8(1970)261

Golub S. I.

V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novikov and V.I. Tkach
Prevention of scale formation in distillation desalination plants by means of seeding 1(1966)50

F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience 1(1966)165

L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Viceblatt and V.M. Lavygin
The choice of basic parameters of a multi-stage flash plant for sea water desalination 4(1968)94

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo
Test of the desalting flash pilot plant with recirculating seed 5(1968)34

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

S.I. Golub, V.V. Iljushchenko, S.V. Grigorenko, U.V. Kartowsky and N.K. Tokmantsev
On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types 44(1983)137

V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub
Influence of spray density on coefficient of gas dynamic resistance for tube bundles of different configuration 74(1989)383

V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub
Interaction of spraying liquid and vapour in horizontal tube film evaporators 74(1989)391

V.V. Iljushchenko, A.M. Rosen and S.I. Golub
General approach to the drop entrainment calculation in heat- and mass-transfer apparatus 81(1991)383

Golze A. R.

A.R. Golze
Relationship between storage capacity and load factor of a desalination plant 1(1966)267

Gomella C.

C. Gomella
French experience in the exploitation of electrodialysis apparatus (in French) 2(1967)283

C. Gomella
Construction principles of large stills. Solution adopted for large solar stills of the greenhouse type (in French) 4(1968)61

Gomes R. M.

S. Evans and R.M. Gomes
Desalination of Rhine River water by ion exchange. Part 1. Pilot plant studies of lime slurry regeneration 19(1976)433

Gómez C.M.

A.A. Mesa, C.M. Gómez and R.U. Azpitarte
Energy saving and desalination of water 108(1996)43

A.A. Mesa, C.M. Gómez and R.U. Azpitarte
Design of the maximum energy efficiency desalination plant (PAME) 108(1996)111

Gomez E. G.

E.G. Gomez
Ten years operating experiences at 7.5 mgd commercial desalination plant — Rosarito B. C. Mexico 30(1979)77

Gómez Gotor A.

J.M. Veza, A. Gómez Gotor and J. Pérez Castillo
Desalination technology in the Canary Islands, 1990 85(1992)147

Gomkale S. D.

S.D. Gomkale
Review of the first conference on water desalination in India, held November 16-18, 1967 at the Central Salt and Marine Chemicals Research Institute, Bhavnagar 4(1968)131

S.K. Carg, S.D. Gomkale, R.L. Datta and D.S. Datar
Development of humidification-dehumidification technique for water desalination in arid zones of India 5(1968)55

S.Y. Ahmed, S.D. Gomkale, R.L. Datta and D.S. Datar
Scope and development of solar stills for water desalination in India 5(1968)64

G.L. Natu, H.D. Goghari and S.D. Gomkale
Solar distillation plant at Awania, Gujarat, India 31(1979)435

M.R. Adiga, S.K. Adhikary, P.K. Narayanan, W.P. Harkare, S.D. Gomkale and K.P. Govindan
Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert 67(1987)59

S.D. Gomkale
Solar desalination as a means to provide Indian villages with drinking water 69(1988)171

S.D. Gomkale
Operational experience with solar stills in An Indian village and their contribution to the drinking water supply 69(1988)177

Gonet M.

M. Turek and M. Gonet
Nanofiltration in the utilization of coal-mine brines 108(1996)171

Gons J.

A.J. Naaktgeboren, G.J. Snijders and J. Gons
Characterization of a new reverse osmosis composite membrane for industrial application 68(1988)223

Gontar V.

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Goodman G. A.

J.J. Porter and G.A. Goodman
Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams 49(1984)185

Goossens I.

I. Goossens and A. van Haute
The influence of mineral fillers on the membrane properties of high flux asymmetric cellulose acetate reverse osmosis membranes 18(1976)203

I. Goossens and A. van Haute
The use of direct osmosis tests as complementary experiments to determine the water and salt permeabilities of reinforced cellulose acetate membranes 26(1978)299

Goossens M. L. A.

J.A.M. Meijer, J.A. Wesselingh, A. Clobus and M.L.A. Goossens
Impacts against the wall of a scaled-up fluidized bed 58(1986)1

Gopalakrishna S.

S. Gopalakrishna, V.M. Purushothaman and N. Lior
An experimental study of flash evaporation from liquid pools 65(1987)139

Goren M.

D.F. Walden and M. Goren
Innovative independent power plant financing applied to desalination projects 102(1995)155

Görge B.

P. Lipp, B. Görge and R. Gimbel
A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis 79(1990)203

Gostoli C.

G.C. Sarti, C. Gostoli and S. Matulli
Low energy cost desalination processes using hydrophobic membranes 56(1985)277

L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
A desalination process through sweeping gas membrane distillation 64(1987)245

S. Bandini, C. Gostoli and G.C. Sarti
Role of heat and mass transfer in membrane distillation process 81(1991)91

Goto T.

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results 21(1977)11

A. Wada, N. Katano and T. Goto
Prediction of the diffusion of discharged brine by a simulation analytical method 22(1977)91

T. Goto and T. Hakuta
Pollution problems in a distillation process 23(1977)245

T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa
Concentration of heavy water in seawater distillation process 25(1978)61

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Membrane distillation with fluoro-carbon membranes 81(1991)107

T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto
Preliminary experiment on seawater pretreatment with UF membranes for RO desalination 93(1993)235

N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto
The reference and analysis of a double-element type hollow fiber RO module in seawater desalination 96(1994)441

Gotoh S.

K. Nita, K. Numata, S. Gotoh and M. Matsui
Application of a chlorine-resistant polyamide RO membrane with a hollow fiber configuration 96(1994)33

Götz G.

A.E. Allegrezza, Jr., R.D. Burchesky, G. Götz, R.B. Davis and M.J. Coplan
Hollow fiber composite reverse osmosis membrane 20(1977)87

Goubeau P.

P. Goubeau and P. Leroy
A specific energy recovery pumping system for reverse osmosis desalination 44(1983)199

P. Goubeau
Energy recovery pumps in reverse osmosis desalination plants 54(1985)117

Goudédranche H.

H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut
Utilization of the new mineral UF membranes for making semi-hard cheeses 35(1980)243

Gough I.A.

V. Cinanni, I.A. Gough and A.J. Sciuto
A water treatment and recovery plant for highly acidic heavy metal laden effluents 106(1996)145

Goulvestre L.

L. Goulvestre and C. Lepert
Energy recovery and pumping for 70-bar seawater osmosis (in French) 32(1980)297

Gourgi T.

V. Frenkel and T. Gourgi
Brakish water RO desalination plant in the Gaza Strip 101(1995)47

Gouzy A.

P. Balligand, P. Denis, M. de Cachard, A. Gouzy and R. Berger
Greenhouses with solar desalination (in French) 31(1979)429

Govert A. A.

O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert
Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations 71(1989)337

Govindan K.P.

K.P. Govindan and P.K. Narayanan
Demineralization by electrodialysis 19(1976)229

D.J. Mehta, A.V. Rao and K.P. Govindan
Water desalination — A perspective for membrane processes in India 30(1979)325

B.S. Joshi and K.P. Govindan
Water softening by diffusion using cation exchange membranes 38(1981)509

K.P. Govindan and P.K. Narayanan
Demineralization by electrodialysis using ampholytic ion-conducting spacers 38(1981)517

W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan
Desalination of brackish water by electrodialysis 42(1982)97

P.K. Narayanan, W.P. Harkare, S.K. Adhikary, N.J. Dave, D.K. Chauhan and K.P. Govindan
Performance of an electrodialysis desalination plant in rural area 54(1985)145

M.R. Adiga, S.K. Adhikary, P.K. Narayanan, W.P. Harkare, S.D. Gomkale and K.P. Govindan
Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert 67(1987)59

S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan
Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater desalination by electrodialysis 69(1988)261

S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan
Defluoridation during desalination of brackish water by electrodialysis 71(1989)301

Graber F. M.

F.M. Graber, H.K. Lonsdale, C.E. Milstead and B.P. Cross
Boron rejection by cellulose acetate reverse osmosis membranes 7(1970)249

Grabska-Winnicka D.

D. Grabska-Winnicka and T.Winnicki
Membrane separation in biological sewage treatment processes 83(1991)243

Graef J. H.

J.H. Graef
Solar desalination plant contra CO2 emission 82(1991)187

Graf W.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Grafte N.

N. Grafte and E. Roost
Hot water resistant coatings for the inside protection of desalination plants 66(1987)223

Graham S. I.

S.I. Graham, R.L. Reitz and C.E. Hickman
Improving reverse osmosis performance through periodic cleaning 74(1989)113

Graillon S.

S. Graillon, F. Persin, G. Pourcelly and C. Gavach
Solving equations simulating the steady-state behavior of the multi-stage flash desalination 107(1996)159

Grall L.

S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Stress corrosion of austenitic stainless steels in chloride environments (in French) 3(1967)118

G. Boisde, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Etude du comportement de divers matériaux dans l'eau de mer jusqu'à 150°C 5 suppl.(1969)895

Gramondo M.

A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini
Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets 26(1978)3

Granda J. M.

M. Fariñas, J.M. Granda, L. Gurtubai and M.J. Villagra
Pilot experiences on the recovery of polluted reverse osmosis membranes 66(1987)385

Grange J. L.

J. Fournier, J.L. Grange and S. Vergara
Water desalination by natural freezing 15(1974)167

Grantham J. H.

J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter
Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities 48(1983)293

Graveland A.

H.A. van den Berkmortel and A. Graveland
Potable water quality improvement for the city of Amsterdam 98(1994)83

H.A. van den Berkmortel and A. Graveland
Potable water quality improvement for the City of Amsterdam 105(1996)11

Graves G. W.

G.B. Hatfield and G.W. Graves
Optimization of a reverse osmosis system using nonlinear programming 7(1970)147

Grebenyuk V.D.

V.D. Grebenyuk, A.A. Mazo and V.M. Linkov
New ecological problems of desalting and water re-use 105(1996)175

Green G.

G. Green and G. Belfort
Fouling of ultrafiltration membranes: lateral migration and the particle trajectory model 35(1980)129

Green H. E.

H.E. Green
Marketing new technology for solving water treatment problems: One company's experience 23(1977)321

Green J. A. S.

J.A.S. Green, B.W. Gamson and W.F. Westerbaan
Experience with desalination plants containing titanium heat exchange tubing 22(1977)359

Green M. E.

Q. Li, Y. Fang and M.E. Green
Edge effects and orientation effects in electrodialysis 41(1982)47

Greenhalgh S. H.

C. Bowler, S.H. Greenhalgh and M.S. Brenji
Process design of a 30000 m3/d advanced water re-use facility for Jeddah, Saudi Arabia 56(1985)47

C. Bowler and S.H. Greenhalgh
Water reclamation from sewage using traditional techniques — Some large scale examples 56(1985)131

Greffrath R.

R. Greffrath and F. Mayinger
A control system for multi-stage flash desalination plants 31(1979)71

Gregory J.D.

J.D. Gregory, R. Lugg and B. Sanders
Revision of the national reclaimed water guidelines 106(1996)263

Gregorzewski A.

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

K. Genthner, A. Gregorzewski and A. Seifert
The effects and limitations issued by non-condensible gases in sea water distillers 93(1993)207

Greif R.

N. Lior and R. Greif
A system for the experimental study of flash evaporation 31(1979)87

C.S. Wang, R. Greif and A.D.K. Laird
Heat transfer in a rotating disk evaporator 33(1980)259

N. Lior and R. Greif
Some basic observations on heat transfer and evaporation in the horizontal flash evaporator 33(1980)269

Greig H. W.

H.W. Greig and J.W. Wearmouth
An economic comparison of 2 x1000 m3 /day desalination plants 64(1987)17

Grethlein H.E.

P.M. Fahey and H.E. Grethlein
Improved cellulose acetate membranes for reverse osmosis 9(1971)297

H.E. Grethlein
A study on reproducibility of cellulose acetate membranes 12(1973)45

Greyson J.

J. Greyson
Influence of the alkali halides on the structure of water 3(1967)60

Griepentrog H.

H. Griepentrog
Total quality management and desalination plants: A practical application for result-based management methods 93(1993)373

Griffith W. L.

W.L. Griffith, R.M. Keller and K.A.Kraus
Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes 4(1968)283-308, Err. 11(1972)129

W.L. Griffith, R.M. Keller and K.A.Kraus
Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes 4(1968)283-308, Err. 11(1972)129

D.G. Thomas, W.L. Griffith and R.M. Keller
The role of turbulence promoters in hyperfiltration plant optimizatlon 9(1971)33

W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr.
Effect of brine disposal cost on hyperfiltration plant optimization 11(1972)91

Grigoleit J.

J. Grigoleit and B. Schöttler
Experience and results on the operation of the common pretreatment at DROP 63(1987)209

J. Grigoleit and B. Schöttler
Experience and results on the operation of the spiral wound module line of DROP 63(1987)217

Grigorenko S. V.

S.I. Golub, V.V. Iljushchenko, S.V. Grigorenko, U.V. Kartowsky and N.K. Tokmantsev
On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types 44(1983)137

V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi
Heat exchange at dropwise condensation in heat exchangers of desalination plants 74(1989)373

Gril M.L.

F.N. Karelin, A.A. Askerniya, M.L. Gril and O.F. Parilova
Salt concentration and recovery from aqueous solutions using pressure-driven membrane processes 104(1996)69

Grohmann A.

S. Antoniou, J. Springer and A. Grohmann
Dynamic polyacrylamide membranes in the reverse osmosis 32(1980)47

Groot Wassink J.

I.G. Rácz, J. Groot Wassink and R. Klaassen
Mass transfer, fluid flow and membrane properties in flat and corrugated plate hyperfiltration modules 60(1986)213

Gröpl R.

R. Gröpl and W. Pusch
Asymmetric behaviour of cellulose acetate membranes in hyperfiltration experiments as a result of concentration polarisation 8(1970)277

Gröschl A.

R. Rautenbach and A. Gröschl
Separation potential of nanofiltration membranes 77(1990)73

R. Rautenbach and A. Gröschl
Fractionation of aqueous organic mixtures by reverse osmosis 90(1993)93

R. Rautenbach and A. Gröschl
Fractionation of aqueous organic mixtures by reverse osmosis 90(1993)93

Grossman G.

D. Pnueli and G. Grossman
A mathematical model for the flow in an electrodialysis cell 6(1969)303

D. Pnueli and G. Grossman
A mathematical model for the concentration field in an electrodialysis cell 7(1970)297

G. Grossman and A.A. Sonin
Experimental study of the effects of hydrodynamics and membrane fouling in electrodialysis 10(1972)157

G. Grossman and A.A. Sonin
Membrane fouling in electrodialysis: A model and experiments 12(1973)107

W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone
Spray freezer and pressurized counterwasher for freeze desalination 14(1974)249

Groth H.L.

J.O. Olsson and H.L. Groth
Evaporators made of solid duplex staintess steel. A new approach to reduced costs 97(1994)67

Grover J. R.

K.D.B. Johnson, J.R. Grover and D. Pepper
Chemical engineering aspects of the reverse osmosis process 2(1967)40

J.R. Grover, R. Gayler and M.H. Delve
Development and field trial evaluation of a new reverse osmosis module system 14(1974)93

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Groves G. R.

R.L.C. Flemmer, C.A. Buckley and G.R. Groves
An analysis of the performance of a spiral wound ultrafiltration membrane, with a turbulence-promoting net 41(1982)25

C.A. Buckley, R.L.C. Flemmer and G.R. Groves
Fouling studies and mathematical modelling of ultrafiltration of textile desizing effluents 47(1983)171

G.R. Groves
Application of membrane separation processes to the treatment of industrial effluents for water reuse 47(1983)277

G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson
Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse 47(1983)305

K. Treffry-Goatley, C.A. Buckley and G.R. Groves
Reverse osmosis treatment and reuse of textile dyehouse effluents 47(1983)313

M.J. Simpson and G.R. Groves
Treatment of pulp/paper bleach effluents by reverse osmosis 47(1983)327

R.L.C. Flemmer, C.A. Buckley and G.R. Groves
The arrangement of spiral-wound ultrafiltration modules 61(1987)159

O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde
The treatment of industrial effluents with high salinity and organic contents 67(1987)395

Grua C.

C. Grua
Construction and initial operation of the VTE/ MSF module 14(1974)1

Gruendisch A.

W. Wilson, A. Gruendisch and I. Calder-Potts
The use of Pelton wheel turbines for energy recovery in reverse osmosis systems 65(1987)231

Guang Chen

Song Xu-Tong and Chen Guang
The calculation of limiting current density of electrodialysis under the influence of water quality and temperature 46(1983)263

Guardiani G.M.

A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi
ENEL experience of seawater desalination plants 108(1996)345

Gubenko V. V.

L.S. Sterman, N.A. Mozharov and V.V. Gubenko
Selection of parameters of an atomic energy plant with high productivity distillation of sea water 5(1968)95

Gudernatsch W.

W. Gudernatsch, C. Krumbholz and H. Strathmann
Development of an anion-exchange membrane with increased permeability for organic acids of high molecular weight 79(1990)249

Gudmundsson J.S.

J.S. Gudmundsson and T.R. Bott
Deposition of silica from geothermal waters on heat transfer surfaces 28(1979)125

Guerrero J. M.

J.M. Guerrero and L.F. del Castillo
Deformed reverse osmosis membrane and low pressure operation 26(1978)141

Guha B. K.

N. Datta and B.K. Guha
Mass transfer limitations in a membrane module 89(1993)343

Guihard L.

B. Chaufer, M. Rabiller-Baudry, L. Guihard and G. Daufin
Retention of ions in nanofiltration at various ionic strength 104(1996)37

Guillotin M.

M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions 21(1977)165

Gujar K. B.

S.S. Mahajan, M.B. Sabne, K.B. Gujar and N.D. Ghatge
Modification of cellulose acetate by propylene oxide 52(1985)327

Guneratne D. C.

D.C. Guneratne
Application of a design computer code to determine the off-design characteristics of the Gibraltar vertical tube evaporator desalination plant 13(1973)343

Günther R.

R. Günther and J. Hapke
Design of membrane separation plants using a module data base 104(1996)119

Gupta A.

I. Kaur, A. Gupta, B.N. Misra and G.S. Chauhan
Functionalization of polyethylene film by radiochemical grafting for use as membranes in seawater desalination 110(1997)115

I. Kaur, G.S. Chauhan, B.N. Misra and A. Gupta
Synthesis and characterization of grafted polyethylenes for use as membranes in water desalination 110(1997)129

Gupta H. B.

G.S. Watkins and H.B. Gupta
A comparative study of organic fouling in hollow fiber and spiral wound membranes 66(1987)299

Gupta S.

S.K. Gupta, S. Gupta and A. Narayana
Design and parameter estimation of reverse osmosis systems 86(1992)77

A.V. Singh, S. Gupta and S.C. Gupta
Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India 104(1996)235

Gupta S.C.

A.V. Singh, S. Gupta and S.C. Gupta
Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India 104(1996)235

Gupta S. K.

S.K. Gupta
Design and analysis of reverse osmosis systems using three parameter models for transport across the membrane 85(1992)283

S.K. Gupta, S. Gupta and A. Narayana
Design and parameter estimation of reverse osmosis systems 86(1992)77

Z.V.P. Murthy and S.K. Gupta
Estimation of mass transfer coefficient using a combined nonlinear membrane transport and film theory model 109(1997)39

Gur-Arie E.

R.F. Probstein, A.A. Sonin and E. Gur-Arie
A turbulent flow theory of electrodialysis 11(1972)165

Gurtubai L.

M. Fariñas, J.M. Granda, L. Gurtubai and M.J. Villagra
Pilot experiences on the recovery of polluted reverse osmosis membranes 66(1987)385

Gurumoorthy K.

K. Gurumoorthy and T. Swaminathan
Use of reverse osmosis in chlor alkali plant 98(1994)303

Guseva O. V.

O.D. Linnikov, V.L. Podbereznyi, E.A. Anokhina and O.V. Guseva
Efficiency of two scale prevention methods for desalting Caspian seawater 89(1993)311

Gusmano G.

R. Cigna, A. De Maio, L. Giuliani and G. Gusmano
Acid cleaning and passivation of power plant condensers and desalination plants 38(1981)269

G. Gusmano and G. Dall'Omo
Quality control problems in copper alloy tubes manufacturing 38(1981)281

R. Cigna, L. Giuliani and G. Gusmano
Continuous corrosion monitoring in desalination plants 55(1985)219

G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa
Factors affecting the corrosion behaviour of CN 108 alloy in sea water 74(1989)259

Gustajtis K. A.

J.R. Rossiter and K.A. Gustajtis
Determination of iceberg underwater shape with impulse radar 29(1979)99

Guter G. A.

G. Belfort and G.A. Guter
An electrical analogue for electrodialysis 5(1968)267

H.K. Bishop, J.A. Bittles and G.A. Guter
Investigation of inorganic ion exchange membranes for electrodialysis 6(1969)369

G. Belfort and G.A. Guter
An experimental study of electrodialysis hydrodynamics 10(1972)221

Gutknecht W.

K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors 53(1985)197

Gutman M.

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Guy D. B.

D.B. Guy and S.I. Magidson
The line pressure reverse osmosis appliance industry 54(1985)127

Guzman J.

J. Guzman
Las Palmas Phase II desalination plant in the Canary Islands (Spain) 27(1978)175

F. Cantera, J. Guzman and R. Sterner
Activities in Spain 39(1981)385

J. Guzman
Rehabilitation of an uneconomic MSF plant in the Canary Islands, Spain 52(1984)75

Gydarov V.

V. Slesarenko and V. Gydarov
Study of thermo-physical characteristics of thin film desalination plants 30(1979)375

Gyseva O. V.

O.I. Martynova, L.G. Vasina, A.V. Boglovsky and O.V. Gyseva
Alkaline scale formation restriction in desalination plants by means of antiscalant additives 83(1991)55

Haagensen U. J.

O.J. Olsen and U.H. Haagensen
Membrane filtration for the reuse of city waste water 47(1983)257

Habbe R.

R. Rautenbach and R. Habbe
Seeding technique for "zero-discharge" processes, adaption to electrodialysis 84(1991)153

Habib K.

K. Habib
Predictability of a membrane transport model: A general approach 75(1989)41

K. Habib and A. Julka
Corrosion behavior of Al-Brass in polluted natural seawater 84(1991)350

K. Habib and A. Amin
Electrochemical behaviour of Al-brass in natural seawater 85(1992)275

K. Habib
Electrochemical behavior of copper-nickel alloys in sulphide polluted seawater at moderate temperatures 89(1992)41

K. Habib
Electrochemical behavior of a high strength nickel-based alloy in H2SO4 93(1993)537

K. Habib and A. Husain
Stress corrosion cracking of copper-nickel alloys in sulphide polluted natural seawater at moderate temperatures 97(1994)29

A. Husain, K. Habib and R. Jarman
The inhibition effect of sodium molybdate on the initiation of corrosion fatigue of 1020 mild steel in aqueous solution 99(1994)113

Haddis J. L.

C.A. Brandon, D.A. Jernigan, J.L. Gaddis and H.G. Spencer
Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration 39(1981)301

Hadji N. E.

Y. Alayli, N.E. Hadji and J. Leblond
A new process for the extraction of water from air 67(1987)227

Hafidi M.R.A.

M.O. El-Khattabi, M.R.A. Hafidi and A. El-Midaoui
Reduction of melassigenic ions in cane sugar juice by electrodialysis 107(1996)149

Hagenson R.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

Hägerda B. l

B. Hägerdal, M. López-Leiva and B. Mattiasson
Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose 35(1980)365

Hagiwara S.

M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara
Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis 32(1980)13

Hahn W. J.

W.J. Hahn
Measurements and control in freeze desalination plants 59(1986)321

Hahn-Hägerdal B.

I. Ohlson, G. Trägårdh and B. Hahn-Hägerdal
Evaluation of UF and RO in a cellulose saccharification process 51(1984)93

Haiyan Xu

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Hakamaya A.

H. Ohya, A. Hakamaya, Y. Hiraoka and Y. Negishi
Theoretical studies on the separation of different ionic species of the same charge sign using cascaded electrodialysis with reflux 94(1993)167

Hakuta T.

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results 21(1977)11

T. Hakuta, T.J. Edwards and J.M. Prausnitz
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions 21(1977)23

T. Goto and T. Hakuta
Pollution problems in a distillation process 23(1977)245

T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa
Concentration of heavy water in seawater distillation process 25(1978)61

Halary J. L.

J.L. Halary, C. Noel and L. Monnerie
Physicochemical processes during fabrication of cellulose acetate membranes. Standards for performance optimization. I. Dopes containing aqueous solutions of inorganic salts (in French) 13(1973)251

J.L. Halary, C. Noël and L. Monnerie
Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis 27(1978)197

J.L. Halary, C. Nöel and L. Monnerie
Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis 32(1980)65

Halberg N.

D.G. Klaren and N. Halberg
The standard module philosophy for multi stage flash/fluidized bed evaporation: a new approach in desalination 31(1979)233

Hale F. J.

J.C. Orcutt and F.J. Hale
The secondary refrigerant freezing process: A modeling study 7(1970)201

Hall B.

J.C. Watters, E. Klein, M. Fleischman, J.S. Roberts and B. Hall
Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack 60(1986)93

Hallberg M.

B. Ericsson, M. Hallberg and J. Wachenfeldt
Nanofiltration of highly colored raw water for drinking water production 108(1996)129

Hallmans B.

R.P. Birch, M. Al-Arrayedh and B. Hallmans
Bahrain's fresh groundwater situation and the investigations into using Bahrain's brackish water resources as a feedwater for the reverse osmosis desalination programme 55(1985)397

B. Ericsson and B. Hallmans
A comparative study of the economics of RO and MSF in the Middle East 55(1985)441

B. Ericsson, B. Hallmans and P. Vinberg
Optimization for design of large RO seawater desalination plants 64(1987)459

J. Masarczyk, C.-H. Hansson, R.L. Solomon and B. Hallmans
Desalination plant at KWK Debiensko, Poland: Advanced mine drainage water treatment engineering for zero discharge 75(1989)259

B. Ericsson and B. Hallmans
Membrane filtration as a pre-treatment method 82(1991)249

B. Ericsson and B. Hallmans
Membrane applications in raw water treatment with and without reverse osmosis desalination 98(1994)3

B. Ericsson and B. Hallmans
Control of the nutrient pollution discharge from the Vistula River Basin in Poland 98(1994)185

B. Ericsson and B. Hallmans
Treatment and disposal of saline wastewater from coal mines in Poland 98(1994)239

B. Ericsson and B. Hallmans
Trends in domestic waste water treatment in Sweden 98(1994)259

B. Ericsson and B. Hallmans
Treatment of saline wastewater for zero discharge at the Debiensko coal mines in Poland 105(1996)115

Hallock D. C.

D.C. Hallock
Improved pumping economics for seawater RO systems 44(1983)99

Hallström B.

B. Hallström and M. Lopez-Leiva
Description of a rotating ultrafiltration module 24(1978)273

G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt
Membrane technology research at Lund Institute of Technology 27(1978)81

B. Hallström, B. Sivik and G. Trägårdh
The Swedish Membrane Technology Foundation 42(1982)339

V. Gekas, B. Hallström and G. Trägårdh
Food and dairy applications: The state of the art 53(1985)95

V. Gekas and B. Hallström
Microfiltration membranes, cross-flow transport mechanisms and fouling studies 77(1990)195

W. Zhang and B. Hallström
Membrane characterization using the contact angle technique. I. Methodology of the captive bubble technique 79(1990)1

Halván M.

R. Manjarrez and M. Galván
Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project 31(1979)545

Halzl J.

J. Halzl, Z. Szabó, L. Szücs and M. Torma
Application of the HTGR-CCGT system in dual-purpose nuclear power plants 5 suppl.(1969)367

J. Halzl, Gy. Sigmond, Z. Szabó and M. Torma
Application of nuclear reactors to the alumina and aluminum industry 5 suppl.(1969)773

Hamad E.Z.

W.Z. Khan and E.Z. Hamad
Performance of an aromatic polyamide hollow fiber membrane subjected to high salinity water 105(1996)191

Hamada K.

T. Ukai, Y. Nimura, K. Hamada and H. Matsui
Development of one pass sea water reverse osmosis module "Hollosep" 32(1980)169

Hamada T.

N. Noguchi, S. Sato, T. Imatake, T. Matsuhara and T. Hamada
Prevention of scale and corrosion on flash evaporators 5 suppl.(1969)879

K. Edahiro, T. Hamada, M. Arai and Y. Hirao
Research and development of multi-effect horizontal tube film evaporator 22(1977)121

K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty
Studies on the vaporization mechanisms of organic pollutants in an evaporator 103(1995)177

Hamanaka K.

A. Furuki, K. Hamanaka, M. Tatsumoto and S. Inohara
Automatic control system of MSF process (Acsode®) 55(1985)77

S. Doi and K. Hamanaka
Pore size control technique in the spinning of polysulfone hollow fiber ultrafiltration membranes 80(1991)167

Hamann S.D.

S.D. Hamann and N.H. Pilkington
An ion-exchange process with thermal regeneration. XIII. Treatment of feedwater containing bicarbonate by adjustment of the pH of the regenerant with carbon dioxide 28(1979)43

Hamano T.

T. Hamano, P.B. Chebi, L. Gerdes and T.D. Wolfe
The development of a new electrodialysis system for brackish water 96(1994)23

P.B. Chebi and T. Hamano
Pilot runs at the Santa Anna Watershed Project Authority using Asahi electrodialysis 103(1995)69

Hamby K.

K. Hamby and J. Chen
Operating experience of an RO Plant as pretreatment of the demineralizer system in a cogeneration plant 76(1989)3

Hamdan L.

L. Hamdan
Water resources research needs in the Arabian Gulf area 72(1989)3

Hamdona S.K.

S.K. Hamdona, R.B. Nessim and S.M. Hamza
Spontaneous precipitation of calcium sulphate dihydrate in the presence of some metal ions 94(1993)69

S.K. Hamdona, S.M. Hamza and A.H. Mangood
Effect of some amino acids on the rate of dissolution of calcite crystals in aqueous systems 101(1995)263

Hamed O. A.

O.A. Hamed and S. Aly
Simulation and design of MSF desalination processes 80(1991)1

O.A. Hamed
Thermal assessment of a multiple effect boiling (MEB) desalination system 86(1992)325

O.A. Hamed, E.I. Eisa and W.E. Abdalla
Overview of solar desalination 93(1993)563

O.A. Hamed and K.A. Ahmed
An assessment of an ejectocompression desalination process 96(1994)103

Hameed M. S.

M.S. Hameed
Design method of reverse osmosis units used in desalination 75(1989)85

Hamer G.

G. Hamer, T. Egli and N. Al-Awadhi
Polluted water renovation for reuse: Recent biotechnological advances applicable in hot arid regions 72(1989)31

Hamester H. L.

A.A. Husseiny and H.L. Hamester
Engineering design of a 6000 m3/day seawater hybrid RO-ED helio-desalting plant 39(1981)171

Hamid N.H.A.

N.H.A. Hamid and A. Idris
Towards a sludgeless heavy metal finishing industry for a cleaner environment 106(1996)411

N. Sapari, A. Idris and N.H.A. Hamid
Total removal of heavy metal from mixed plating rinse wastewater 106(1996)419

Hamida A.B.

H.W. Pohland, A.B. Hamida and K. Chida
Reliable supply of drinking water through use of high performance B-10 "TWIN" permeators. A one year case history at Das Island, UAE 96(1994)303

Hamidi H.

M. Edalat, J. Entessari and H. Hamidi
The Bushehr 200,000 m3/d desalination plant 26(1978)127

Hamilton R. L.

J.E. Burke, M. Mickley, J. Truesdall and R.L. Hamilton
Usefulness of networking in membrane plant design and operation 102(1995)77

J. Truesdall, M. Mickley and R. Hamilton
Survey of membrane drinking water plant disposal methods 102(1995)93

Hammer E. E.

R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
An assessment of different scale control methods 47(1983)49

Hammond R. P.

R.P. Hammond
Nuclear desalination program at the Oak Ridge National Laboratory 3(1967)243

R.P. Hammond and T.D. Anderson
Technology needed for the economic use of desalted water in agriculture 5 suppl.(1969)785

R.P. Hammond, D.M. Eissenberg, D.K. Emmerman, J.E. Jones, Jr. and H.H. Sephton
Large-scale sea-water distillation for Southern California 87(1992)69

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

R.P. Hammond
Modernizing the desalination industry 107(1996)101

Hammoud A. A.

A.M. Shams El Din, R.A. Arain and A.A. Hammoud
A contribution to the problem of trihalomethane formation from the Arabian Gulf water 85(1991)13

A.M. Shams El Din, A.A. Hammoud and R.A. Arain
Physico-chemical studies on BELGARD EV and BELGARD EV2000 solutions. Part I: Their densities and viscosities at various dilutions and temperatures 103(1995)199

A.M. Shams El Din, T.M.H. Saber and A.A. Hammoud
Biofilm formation on stainless steels in Arabian Gulf water 107(1996)251

Hammouda F. A.

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Squeezing desalted water costs by proper choice of the desalting technology and water management 44(1983)189

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Non-conventional water sources for small remote communities in developing countries 47(1983)285

Hampe M.

M. Hampe
Low temperatures and dissolved gases: two problems in submarine sea water desalination 34(1980)35

Hamza S.M.

S.K. Hamdona, R.B. Nessim and S.M. Hamza
Spontaneous precipitation of calcium sulphate dihydrate in the presence of some metal ions 94(1993)69

S.K. Hamdona, S.M. Hamza and A.H. Mangood
Effect of some amino acids on the rate of dissolution of calcite crystals in aqueous systems 101(1995)263

Han M.-J.

M.-J. Han and D. Bhattacharyya
Thermal annealing effect on cellulose acetate reverse osmosis membrane structure 101(1995)195

Hanafi A .

A. Hanafi
Design and performance of solar MSF desalination systems 82(1991)175

A. Hanafi
Desalination using renewable energy sources 97(1994)339

Hanbury W.T.

W.T. Hanbury and W. McCartney
Nucleation in the flash boiling of sea water 14(1974)217

T. Hodgkiess, N. Eid and W.T. Hanbury
Corrosion of welds in seawater 27(1978)129

W.T. Hanbury, W.S. McCartney, J. Cunningham and T. Hodgkiess
Twelve years of postgraduate education in desalination 30(1979)449

T. Hodgkiess, W.T. Hanbury, M. Arndt and N. Eid
Corrosion of welded samples in seawater 31(1979)399

W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi
Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance 38(1981)301

T. Hodgkiess, W.T. Hanbury and M.H. Hejazian
Corrosion tests of a range of materials in three MSF plants 44(1983)223

W.T. Hanbury and A. Yuceer
Constriction of B10 hollow fibre bore diameters under operating condition 54(1985)27

W.T. Hanbury and T. Hodgkiess
Membrane distillation — An assessment 56(1985)287

R. McBride, R. Morris and W. Hanbury
Wind power — A reliable source for desalination 67(1987)559

S. Avlonitis, W.T. Hanbury qand M. Ben Boudinar
Spiral wound modules performance. An analytical solution. Part I 81(1991)191

S. Avlonitis, W.T. Hanbury and T. Hodgkiess
Chlorine degradation of aromatic polyamides 85(1992)321

M. Ben Boudinar, W.T. Hanbury and S. Avlonitis
Numerical simulation and optimisation of spiral-wound modules 86(1992)273

S. Avlonitis, W.T. Hanbury and M. Ben Boudinar
Spiral wound modules performance. An analytical solution: Part II 89(1993)227

W.T. Hanbury
Some thoughts on the limitations on increasing the unit sizes of conventional cross-tube MSF distillation plants 93(1993)127

Hanekom D.

C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom
Desalination and reuse of power plant effluents: From pilot plant to full scale application 67(1987)255

Hanemaaijer J. H.

J.C. Schippers, J.H. Hanemaayer, C.A. Smolders and A. Kostense
Predicting flux decline of reverse osmosis membranes 38(1981)339

J.H. Hanemaaijer
Microfiltration in whey processing 53(1985)143

J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
Characterization of clean and fouled ultrafiltration membranes 68(1988)93

H.C. Van Der Horst and J.H. Hanemaaijer
Cross-flow microfiltration in food industry. State of the art 77(1990)235

J.T.M. Sluys, D. Verdoes and J.H. Hanemaaijer
Water treatment in a Membrane-Assisted Crystallizer (MAC) 104(1996)135

Hankaoui M.

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Hanlon L. G.

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
25 years experience in the development and application of scale inhibitors 31(1979)243

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
The threshold scale inhibition phenomenon 31(1979)257

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
Factors affecting the brine scaling potential in MSF plants 38(1981)175

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
A model for the fouling of MSF plants based on data from operating units 47(1983)37

K.G. Cooper, L.G. Hanlon and R.E. Talbot
An operating philosophy to optimize the output, plant life and economy of MSF plants operating at high temperatures 54(1985)291

Hanra A. M.

A.M. Hanra and V. Ramachandhran
RO performance analysis of cellulose acetate and TFC polyamide membrane systems for separation of trace contaminants 104(1996)175

Hanra M. S.

P.K. Tewari, M.S. Hanra and M.P.S. Ramani
Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study 64(1987)203

P.K. Tewari, M.S. Hanra, R.K. Verma and M.P.S. Ramani
Studies on MSF desalination - Process design, construction and startup of a prototype MSF plant in India 73(1989)359

H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra
Role of evaporative and membrane desalination technology in solving drinking water problems in India 96(1994)249

Hansen J.

H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen
Reclamation and reuse of process water from reactive dyeing of cotton 106(1996)195

Hansson C. -H.

J. Masarczyk, C.-H. Hansson, R.L. Solomon and B. Hallmans
Desalination plant at KWK Debiensko, Poland: Advanced mine drainage water treatment engineering for zero discharge 75(1989)259

J. Sikora, C-H. Hansson and B. Ericsson
Pre-treatment and desalination of mine drainage water in a pilot plant 75(1989)363

Hao Jihua

Hao Jihua, Wang Wentong, Yang Puchen and Zhao Qingshuang
The preparation of quaternized polysulfon membranes for low pressure reverse osmosis 83(1991)361

Jihua Hao and Qingshuang Zhao
The development of membrane technology for wastewater treatment in textile industry in China 98(1994)353

Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang
Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis 107(1996)217

Hapke J.

B. Kunst (Köln) and J. Hapke
Prorating methods for coupled production of power, fresh water and energy for district heating 26(1978)309

J. Hapke and K. Osterholt
A test center for thermal seawater desalination plants 30(1979)101

K. Thies and J. Hapke
The influence of process temperatures on the design of multi-stage flash distillation plants 31(1979)101

H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich
Investigations in regard of MSF desalination plant engineering during 7 years of operation 31(1979)159

J. Hapke and B. Uckermann
Combined MSF/VTE-modules for hybrid thermal seawater desalination plants 39(1981)373

J. Hapke and A. Mader
Design, construction and operation of a combined MSF/VTE-test evaporator 45(1983)35

J. Hapke and B. Uckermann
Process and layout design of a combined MSF/VTE plant 45(1983)113

R. Günther and J. Hapke
Design of membrane separation plants using a module data base 104(1996)119

Hara S.

S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno
Reverse osmosis membranes from aromatic polymers 21(1977)183

R.L. Goldsmith, B.A. Wechsler, S. Hara, K. Mori and Y. Taketani
Development of PBIL low pressure brackish-water reverse osmosis membranes 22(1977)311

Harada K.

M. Miura and K. Harada
Application of concentrator on the treatment of industrial waste water 98(1994)375

Harada Y.

Y. Harada and K. Yamasaki
Treatment of wastewater and sludge by a catalytic wet oxidation process 98(1994)27

Harashina H.

H. Harashina
5,000,000 imp. gal/day sea water desalination plant for the Ministry of Electricity and Water, Government of Kuwait 22(1977)425

S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant 66(1987)339

Harboe R.

F. Mobasheri and R. Harboe
Optimum conjunctive use of a dual-purpose desalting plant and a surface water reservoir 9(1971)141

Harding K.

K. Harding, D.A. Bridle and F. Thorne
Chemical descaling of acid dosed desalination plants 27(1978)273

K. Harding and D.A. Bridle
Corrosion measurement and assessment in acid dosed desalination plants 28(1979)89

Harel Z.

N. Brauner, D. Moalem-Maron and Z. Harel
Wettability, rewettability and breakdown of thin films of aqueous salt solutions 52(1985)295

Hares M.

M. Hares and M.A. Dayem
Difficulties encountered in executing and running of waste water plants in developing countries 30(1979)175

Hargreaves J.M.

D.R. Lee, J.M. Hargreaves, L. Badertscher, L. Rein and F. Kassir
Reverse osmosis and activated alumina water treatment plant for the California State prisons located near Blythe 103(1995)155

Harkare W. P.

B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy
Demineralization with ion-exchange materials 3(1967)183

W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan
Desalination of brackish water by electrodialysis 42(1982)97

P.K. Narayanan, W.P. Harkare, S.K. Adhikary, N.J. Dave, D.K. Chauhan and K.P. Govindan
Performance of an electrodialysis desalination plant in rural area 54(1985)145

M.R. Adiga, S.K. Adhikary, P.K. Narayanan, W.P. Harkare, S.D. Gomkale and K.P. Govindan
Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert 67(1987)59

S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan
Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater desalination by electrodialysis 69(1988)261

S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan
Defluoridation during desalination of brackish water by electrodialysis 71(1989)301

Harlow H. W.

R.A. Bergman, H.W. Harlow and P.E. Laverty
Resolution of RO flux decline problems at Englewood, Florida 54(1985)55

H.W. Harlow, M. Ray and R. Quick
Nine years of reverse osmosis operation at Englewood 87(1992)193

Harlow W. H.

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

Harper R.

G.O. Hultin and R. Harper
Desalination plant control with microprocessor based digital technology 45(1983)329

Harries R. C.

R.C. Harries
A field trial of seeded reverse osmosis for the desalination of a scaling-type mine water 56(1985)227

R.C. Harries, D. Elyanow, D.N. Heshka and K.L. Fischer
Desalination of brackish groundwater for a prairie community using electrodialysis reversal 84(1991)109

Harriott P.

H.F. Wiegandt, A. Madani and P. Harriott
Ice crystallization developments for the butane direct-contact process 67(1987)107

Harris A.

M.N. Elliot, T.D. Hodgson and A. Harris
Additives for alkaline scale control at temperatures above 93°C (200°F) 14(1974)43

A. Harris, M.A. Finan and M.N. Elliot
A theory of the formation of magnesium scales in sea water distillation plants, and means for their prevention 14(1974)325

M.A. Finan, A. Harris and S. Smith
The field assessment of a high temperature scale control additive and its effect on plant corrosion 20(1977)193

G. Spanhaak, M.A. Finan and A. Harris
The application of a high temperature scale control additive to a European MSF plant 23(1977)455

Harris F. L.

K.G. Patel, F.L. Harris and K.C. Channabasappa
Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA 19(1976)381

Harris W. B.

R.R. Davison, W.B. Harris and W.H. Smith, Jr.
Solvent extraction desalination pilot plant 3(1967)17

Harris III C. G.

W.K. Hendershaw, J.D. Lyle and C.G. Harris, III
Indian River Plantation: The evolution, 16-year history and operating experience of the oldest reverse osmosis water treatment plant on Hutchinson Island (FL) 102(1995)225

Harrold S. J.

B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson
Effects of surface force interactions on an NF/UF membrane 90(1993)107

Harrysson A.-C.

A.-S. Jönsson, R. Wimmerstedt and A.-C. Harrysson
Membrane distillation — A theoretical study of evaporation through microporous membranes 56(1985)237

Hart O. O.

O.O. Hart and R.C. Squires
The role of membrane technology in industrial water and wastewater management 56(1985)69

O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde
The treatment of industrial effluents with high salinity and organic contents 67(1987)395

Hartkopf R. J.

F.F. Antunes, R.E. Cornman and R.J. Hartkopf
Centrifugal pumps for desalination 38(1981)109

Harumiya N.

M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara
Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis 32(1980)13

M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi
Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials 38(1981)449

Haruni M.

R. Zannoni, F. Fantini, M. Haruni, T. Abu Ihweig and G. Boari
Reverse osmosis desulphation pretreatment: new prototype application 54(1985)333

G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar 66(1987)443

Hasan A. B.

A.M. S. Al-Adsani, A.B. Hasan and A A. Malik
Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre 22(1977)271

Hasbani N.

N. Hasbani
An evaluation of brine recycling and wastewater reclamation by R/O and vapor compression 56(1985)37

Hasegawa J.

Y. Yushina and J. Hasegawa
Process performance comparison of membrane introduced anaerobic digestion using food industry waste water 98(1994)413

Hasegawa K.-I.

T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani
Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane 22(1977)253

Hashimoto T.

O. Miyatake, T. Hashimoto and N. Lior
The relationship between flow pattern and thermal non-equilibrium in the multi-stage flash evaporation process 91(1993)51

Hassan A.

A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum
Corrosion experience data bank system for desalination and power plants (Corex) 84(1991)251

A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation 92(1993)21

A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control 92(1993)43

D.M.K. Al-Gobaisi, A.S. Barakzai, M.A. Aziz and A. Hassan
Manageable automation systems for power and desalination plants 92(1993)211

A. Hassan, E.A. Al-Sum and S. Aziz
Storage and retrieval of corrosion data of desalination plant owners 97(1994)131

D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani
Towards improved automation for desalination processes. Part I: Advanced control 97(1994)469

G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz
Towards improved automation for desalination processes. Part II: Intelligent control 97(1994)507

H. Krause and A. Hassan
Improvement of operation and availability of MSF plants 107(1996)59

Hassan A. M.

J. Kaschemekat, W. Hilgendorff, K.W. Böddeker, A.M. Hassan and A.L.A. Malik
Two-stage reverse osmosis seawater desalination 46(1983)151

A.M. Hassan, S. Al-Jarrah, T. Al-Lohibi, A. Al-Hamdan, L.M. Bakheet and M.M.I. Al-Amri
Performance evaluation of SWCC SWRO plants 74(1989)37

A.M. Hassan and A.U. Malik
Corrosion resistant materials for seawater RO plants 74(1989)157

Hassan M. S.

M.S. Hassan, S. Toyama, K. Murase and M.A. Wahhab
Multieffect solar still for agricultural purposes in hot climate 71(1989)347

Hassan Beck H. M.

N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni
Operating experience of MSF desalination plant at the Abu Kammash chemical complex 73(1989)417

Hasson D.

D. Hasson
Athens: 1967. Review of the second European Symposium on fresh water from the sea, May 9-12, Athens, Greece 2(1967)5

D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
Calcium carbonate scale deposition on heat transfer surfaces 5(1968)107

M. Schaal, F.S. Aschner and D. Hasson
Large long-tube vertical evaporators for sea water distillation 10(1972)67-93, Err. 10(1972)220

E. Gazit and D. Hasson
Scale deposition from an evaporating falling film 17(1975)339

S. Steinberg and D. Hasson
Analysis of the effect of brine retention time on the scaling potential 31(1979)267

D. Hasson and I. Perl
Scale deposition in a laminar falling-film system 37(1981)279

D. Hasson and S. Steinberg
Continuous flow precipitation 47(1983)129

J. Gilron and D. Hasson
Analysis of laminar flow precipitation fouling on reverse osmosis membranes 60(1986)9

J. Borden, J. Gilron and D. Hasson
Analysis of RO flux decline due to membrane surface blockage 66(1987)257

M. Brusilovsky and D. Hasson
Prediction of reverse osmosis membrane salt rejection in multi-ionic solutions from single-salt data 71(1989)355

M. Brusilovsky, J. Borden and D. Hasson
Flux decline due to gypsum precipitation on RO membranes 86(1992)187

D. Bramson, D. Hasson and R. Semiat
The roles of gas bubbling, wall crystallization and particulate deposition in CaSO4 scale formation 100(1995)105

D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob
Fouling of RO membranes by phthalate esters contamination 105(1996)13

D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat
Influence of the flow system on the inhibitory action of CaCO3 scale prevention additives 108(1996)67

Hata K.

H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis 25(1978)89

Hatch L. P.

L.P. Hatch, G.G. Weth and S.J. Wachtel
Scale control in the high temperature distillation of saline waters by means of fluidized-bed heat exchangers 1(1966)156

Hatcher A. P.

K.D. Vos, I. Nusbaum, A.P. Hatcher and F.O. Burris, Jr.
Storage, disinfection, and life of cellulose acetate reverse osmosis membranes 5(1968)157

Hatfield G. B.

G.B. Hatfield and G.W. Graves
Optimization of a reverse osmosis system using nonlinear programming 7(1970)147

Hattenbach K.

K. Hattenbach and K. Kneifel
Determination of transport properties and limiting current densities of ion exchange membrane stacks 21(1977)317

K. Kneifel and K. Hattenbach
Properties and long-term behavior of ion exchange membranes 34(1980)77

K. Hattenbach and K. Kneifel
The effect of cell thickness and flow velocity on water cost in desalination by electrodialysis 58(1986)33

Hattori K.

M. Kishi, K. Matsumoto, Y. Takeuchi and K. Hattori
Development of flow model for weir type orifice 55(1985)481

M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori
Development of flashing flow model for box type orifice 65(1987)57

M. Kishi, K. Hattori, M. Tatsumoto and S. Koyama
Development of training simulator for MSFE desalination plant 66(1987)75

Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
Remineralization of desalinated water by limestone dissolution filter 66(1987)365

Hattori S.

S. Hattori and A. Minato
Human welfare by nuclear desalination using super-safe, small and simple reactors (4S) 99(1994)345

Hauertmann H.-B.

K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors 53(1985)197

Hauge L. J.

M.A. Darwish, M. Abdel-Jawad and L.J. Hauge
A new dual-function device for optimal energy recovery and pumping for all capacities of RO systems 75(1989)25

L.J. Hauge
The pressure exchanger — A key to substantial lower desalination cost 102(1995)219

Haugseth L.A.

C. van Hoek, J.W. Kaakinen and L.A. Haugseth
Ion exchange pretreatment using desalting plant concentrate for regeneration 19(1976)471

I.G. Taylor and L.A. Haugseth
Yuma desalting plant design 19(1976)505

L.A. Haugseth
Status of the Yuma desalting plant 27(1978)157

S.H. Suemoto, L.A. Haugseth and C.D. Moody
Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A. 96(1994)43

Hauk D.

G.B. Tanny, D. Hauk and U. Merin
Biotechnical applications of a pleated crossflow microfiltration module 41(1982)299

Hauser H. K. J.

H.K.J. Hauser
Desalination and the development of less developed countries. Activities of the Federal Republic of Germany 20(1977)425

Hausherr B.

B. Hausherr
Low temperature reject heat utilization for desalination; economical and technical aspects 67(1987)215

Hausmanns S.

S. Hausmanns, G. Laufenberg and B. Kunz
Rejection of acetic acid and its improvement by combination with organic acids in dilute solutions using reverse osmosis 104(1996)95

Hawes R. I.

R.I. Hawes and D.C. Leslie
Study of the mechanism of flashing flow by experiment and theoretical analysis 2(1967)329

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Hawker L. C.

J.P. Leger and L.C. Hawker
The composition and structure of reverse osmosis foulant deposits formed from Rand Water Board water: A preliminary investigation 61(1987)137

Hawkins D. M.

P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
Multidimensional response surfaces in the characterization, comparison and optimization of membranes 61(1987)103

Hawlader M.N.A.

A. Malek, M.N.A. Hawlader and J.C. Ho
Simplified Ohya-Sourirajan analysis for predicting permeator performance 91(1993)265

A. Malek, M.N.A. Hawlader and J.C. Ho
A lumped transport parameter approach in predicting B10 RO permeator performance 99(1994)19

A. Malek, M.N.A. Hawlader and J.C. Ho
Design and economics of RO seawater desalination 105(1996)245

Hayakawa M.

J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi
Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia 22(1977)299

Hayano I.

T. Uchida and I. Hayano
Hydrate formation in i-butane-n-butane or a butene isomer water system at a given temperature 3(1967)373

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
Experiments on seawater desalination by membrane distillation 69(1988)19

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Membrane distillation with fluoro-carbon membranes 81(1991)107

Hayashi Y.

M. Nagai, H. Iwahashi, Y. Hayashi and Y. Ogino
The behavior of an oxidizing/reducing agent in seawater 96(1994)291

Hayes C.

S.S. Kremen, C. Hayes and M. Dubos
Large-scale reverse osmosis processing of metal finishing rinse waters 20(1977)71

Hayes D. W. J.

D.W.J. Hayes and J.A.L. Kipps
Salt-gradient solar ponds from concentrated subsurface agricultural drainage waters of the San Joaquin Valley, California 88(1992)301

Hayes G.

G. Hayes
Contamination of food-process water supplies 82(1991)375

Hayes P. H.

D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard
Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed 15(1974)325

Hayman J. P.

P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman
Multidimensional response surfaces in the characterization, comparison and optimization of membranes 61(1987)103

Hazlett J. D.

T.A. Tweddle, C. Striez, C.M. Tam and J.D. Hazlett
Polysulfone membranes. I. Performance comparison of commercially available ultrafiltration membranes 86(1992)27

C.M. Tam, T.A. Tweddle, O. Kutowy and J.D. Hazlett
Polysulfone membranes. II. Performance comparison of polysulfone-poly(N-vinyl-pyrrolidone) membranes 89(1993)275

Hazzaa M.I.

M.I. Hazza and M.E. El-Dahshan
The effect of molybdenum on the corrosion behaviour of some steel alloys 95(1994)199

A. Al-Arifi, M.E. El-Dahshan and M.I. Hazzaa
The effect of molybdenum on the corrosion behaviour of steel alloy in sea water 97(1994)77

He Changshen

Changshen He and Xueming Zu
The development of cyanoethyl CA membrane for reverse osmosis 56(1985)191

Heaton R. D.

R.D. Heaton
New water reuse horizons 23(1977)527

R. Heaton and T.A. Douglas
The operation of sea water distillation plants in relation to materials selection 41(1982)71

N.M. Wade, R. Heaton and D.G. Boulter
Desalination and water reuse. Comparison of MSF and RO in dual purpose power and water plants 55(1985)373

Hebden D.

D. Hebden and G.R. Botha
The pretreatment of seawater RO feed using the UVOX (W/oxidant) process 32(1980)115

Heckmann K.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Hedayat S. E.

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

Hediger T.

J.E. Prenosil and T. Hediger
Scale-up of membrane fixed enzyme reactors: Modelling and experiments 53(1985)265

Heertjes P.M.

E.J.M. Kobus and P.M. Heertjes
The poisoning of anion-selective membranes by sodium dodecylsulphate 10(1972)383

E.J.M. Kobus and P.M. Heertjes
The poisoning for anion-selective membranes by humic substances 12(1973)333

Heikal O.

E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal
Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi 97(1994)109

Heine M. A.

N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio
Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand 38(1981)223

Heinemann P.

P. Heinemann, J.A. Howell and R.A. Bryan
Microfiltration of protein solutions: Effect of fouling on rejection 68(1988)243

Heinrich W.

H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich
Investigations in regard of MSF desalination plant engineering during 7 years of operation 31(1979)159

Heitele B.

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept 108(1996)159

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 2: Improved feed water pretreatment 110(1997)65

Heizer R. T.

R.T. Heizer and C.E. Plock
Reverse osmosis to achieve water control and recycle 20(1977)61

I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan
Saudi Arabian-U.S. joint agreement for technical cooperation in desalination 30(1979)247

Hejazian M. H.

T. Hodgkiess, W.T. Hanbury and M.H. Hejazian
Corrosion tests of a range of materials in three MSF plants 44(1983)223

Hellekes R.

R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes
Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs 65(1987)241

Heller L.

L. Heller and L. Szücs
Optimum system for satisfying a given demand on fresh water and electric power 5 suppl.(1969)385

Hembree R. D.

B.G. Keefer, R.D. Hembree and F.C. Schrack
Optimized matching of solar photovoltaic power with reverse osmosis desalination 54(1985)89

Hendershaw W. K.

W.K. Hendershaw, J.D. Lyle and C.G. Harris, III
Indian River Plantation: The evolution, 16-year history and operating experience of the oldest reverse osmosis water treatment plant on Hutchinson Island (FL) 102(1995)225

Henderyckx Y.

A. Van Haute and Y. Henderyckx
Permeability of membranes to water vapor 3(1967)169

Y. Henderyckx
Diffusion doublet research 3(1967)237

Hendricks T.J.

T.J. Hendricks and F.A. Williams
Diffusion-layer structure in reverse osmosis channel flow 9(1971)155-180, Err. 9(1971)296

Heneghan K. S.

M.M. Clark and K.S. Heneghan
Ultrafiltration of lake water for potable water production 80(1991)243

Henkel B.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Henkens W.C.M.

S.D. Hamann and N.H. Pilkington
An ion-exchange process with thermal regeneration. XIII. Treatment of feedwater containing bicarbonate by adjustment of the pH of the regenerant with carbon dioxide 28(1979)43

Henmi M.

M. Henmi and T. Yoshioka
Studies of ion-exchange fiber "IONEX" for precoating material 91(1993)319

Henne K. H.

R. Rautenbach and K.H. Henne
Total desalination of brackish water 30(1979)581

Henriquez J. F.

J.F. Henriquez, J. Bonet and J. Etxaniz
Galdar — Agaete seawater desalination plant construction and one year operational experience for the 3,500 m3/day RO plant 82(1991)71

Henry D. L.

N. Malley and D.L. Henry
Advance in water quality monitoring and the use of firefly luciferine/luciferase/ATP bioassay 39(1981)521

Henthorne L.

S. Hightower, K. Price and L. Henthorne
The US Bureau of Reclamation's research programs in water treatment and desalting technologies 99(1994)201

Herbert R.

F.C. Wood and R. Herbert
The characteristics of dual-process distillation plant combining vapour compression and multi-stage-flash evaporators 5 suppl.(1969)535

Herbranson L.

L. Herbranson and S.H. Suemoto
Desalination research - Current needs and approaches - A U.S. perspective 96(1994)239

Herion C.

R. Rautenbach, C. Herion and M. Franke
Dehydration of multicomponent organic systems by a reverse osmosis pervaporation-hybrid process module-, process design and economics 70(1988)445

R. Rautenbach, W. Kopp and C. Herion
Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes 72(1989)339

Hermans J. J.

J.J. Hermans
Physical aspects governing the design of hollow fiber modules 26(1978)45

Herrera T.

T. Herrera, Z. Matejka and J. Eliasek
Cation exchange kinetics on carboxylic acid resins in a multicomponent system H—Me+—Me2+ 48(1983)161

Herrmann C. C.

C.C. Herrmann
High frequency excitation and vibration studies on hyperfiltration membranes 42(1982)329

C.C. Herrmann
High recovery reverse osmosis using a recycle loop 91(1993)279

Herrmann D.

D. Herrmann, A. El-Nashar and A. Aidrous
Short-term operational planning in WED. Part 1: Structure of the cogeneration system 92(1993)171

D. Herrmann, A. El-Nashar and A. Aidrous
Short-term operational planning in WED. Part 2: Load dispatch and unit commitment 92(1993)185

Herscovici G.

S.B. Sachs, E. Zisner and G. Herscovici
Hybrid reverse osmosis ultrafiltration membranes 18(1976)99

R. Matz, E. Zisner and G. Herscovici
Pressure driven membrane processes in the treatment of industrial effluents 24(1978)113

Hese N.

S. Peter, N. Hese and R. Stefan
Phenol-selective highly resistant RO membranes made from PVA for the purification of toxic industrial wastes 19(1976)161

Heshka D. N.

R.C. Harries, D. Elyanow, D.N. Heshka and K.L. Fischer
Desalination of brackish groundwater for a prairie community using electrodialysis reversal 84(1991)109

D. Heshka
EDR - Water treatment - Desalination on the prairies 88(1992)109

Hess G.

G. Hess, O.J. Morin and W.V. Carrigan
Seawater desalting for Southern California: Technical and economic considerations 87(1992)55

Hessemans S.

M. Lucas and S. Hessemans
Advantages of the ejectocompression process in sea water desalination 38(1981)57

Hetschel M.

H. Ludwig and M. Hetschel
Treatment of distillates and permeates from seawater desalination plant 58(1986)135

Hetzel K.

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Heybach K.

K. Heybach
Capacity adaption of reverse osmosis systems by temperature and pressure control of the raw water 44(1983)85

H.K. Heybach and U. Müller-Frank
The chance for reverse osmosis technology: Vacuum precoated prefiltration/automation 54(1985)137

Heyde M. E.

J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr.
Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes 37(1981)307

Heyden W.

W. Heyden
Seawater desalination by reverse osmosis. Plant design, performance data, operation and maintenance (Tanajib, Arabian Gulf Coast) 52(1985)187

Hibi K.

E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki
Synthesis of poly(2,5-pyridinedicarboxylic acid-alt-hydrazine) and reverse osmosis performance of its membranes 94(1993)25

Hickman C. E.

C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton
Jeddah seawater reverse osmosis installation 30(1979)259

A.B. Riedinger and C.E. Hickman
Considerations of energy consumption in desalination by reverse osmosis 40(1982)259

S.I. Graham, R.L. Reitz and C.E. Hickman
Improving reverse osmosis performance through periodic cleaning 74(1989)113

Hickman K.

K. Hickman
Reviewing the evaporation coefficient 1(1966)13

J.R. Maa and K. Hickman
Direct condensation of steam on a modified oil coolant 10(1972)95

Hicks D. C.

D.C. Hicks, G.R. Mitcheson, C.M. Pleass and J.F. Salevan
DELBUOY: Ocean wave-powered seawater reverse osmosis desalination system 73(1989)81

D.C. Hicks, W.A. Fearn, C.M. Pleass and D. Staples
Development, testing and the economics of a composite/plastic seawater reverse osmosis pump 73(1989)95

Hicks R. E.

W.G.B. Mandersloot and R.E. Hicks
Leakage currents in electrodialytic desalting and brine production 1(1966)178

Hiddink J.

J. Hiddink, D. Kloosterboer and S. Bruin
Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids 35(1980)149

R. de Boer and J. Hiddink
Membrane processes in the dairy industry. State of the art 35(1980)169

S. Bruin, A. Kikkert, J.A.G. Weldring and J. Hiddink
Overview of concentration polarization in ultrafiltration 35(1980)223

Hieber C. A.

C.A. Hieber
A buoyancy-dominated desalination unit 15(1974)59

Hightower S.

S. Hightower, K. Price and L. Henthorne
The US Bureau of Reclamation's research programs in water treatment and desalting technologies 99(1994)201

Higuchi A.

A. Higuchi, Y. Ishida and T. Nakagawa
Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan 90(1993)127

T. Nakagawa, S. Nagashima and A. Higuchi
Synthesis and gas transport properties of new copolymer membranes with trimethylsilyl groups 90(1993)183

Hilal M. M.

E.E. Khalil, M.M. Hilal, M.F. El-Fouly and H.Z. El-Mogy
Heat transfer and fluid flow characteristics in flash desalination units 39(1981)283

M.M. Hilal and M.A. Marwan
Design equations for a new set up of sluice gates to stabilize inter-scale brine flow 55(1985)139

M.M. Hilal, M.A. Marwan and A.H. Mariy
Experimental verification of interstage sluice gate design equations 61(1987)7

Hildenbrand K.

H. Perrey and K. Hildenbrand
New heterocycles for ultrafiltration membranes 51(1984)45

Hilgendorff W.

K.W. Böddeker, W. Hilgendorff and J. Kaschemekat
Reverse osmosis sea water test facility on board NS Otto Hahn 18(1976)307

K.W. Böddeker, W. Hilgendorff and J. Kaschemekat
An alternative design concept in reverse osmosis desalination 20(1977)155

J. Kaschemekat, W. Hilgendorff, K.W. Böddeker, A.M. Hassan and A.L.A. Malik
Two-stage reverse osmosis seawater desalination 46(1983)151

Hill K.

K. Hill
The MSF desalination process: A comparison of acid and polyphosphate treatment plants 25(1978)111

K. Hill
Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf (Letter to the Editor) 34(1980)325

Hirai M.

Y. Kunisada, Y. Murayama and M. Hirai
The development of seawater desalination by reverse osmosis process in Japan 22(1977)243

H. Ogasawara, Y. Kunisada, H. Kaneda and M. Hirai
Desalination in the reuse of industrial waste water 23(1977)113

Y. Kunisada, H. Kaneda, M. Hirai and Y. Murayama
Sea water desalination by reverse osmosis in Chigasaki Laboratory 30(1979)337

Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
Operating experience on RO sea water desalination plant at Chigasaki Laboratory 39(1981)413

Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama
Desalination of high salinity sea water by reverse osmosis (Summary) 46(1983)145

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
Experiments on seawater desalination by membrane distillation 69(1988)19

T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto
Preliminary experiment on seawater pretreatment with UF membranes for RO desalination 93(1993)235

Hirano R.

D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas
Desalination of municipal wastewater for horticultural reuse: Process description and evaluation 103(1995)1

Hirao Y.

K. Edahiro, T. Hamada, M. Arai and Y. Hirao
Research and development of multi-effect horizontal tube film evaporator 22(1977)121

Hiraoka Y.

H. Ohya, A. Hakamaya, Y. Hiraoka and Y. Negishi
Theoretical studies on the separation of different ionic species of the same charge sign using cascaded electrodialysis with reflux 94(1993)167

Hirata Y.

A. Yamauchi, M. Shinoda and Y. Hirata
Membrane phenomena of an amphoretic membrane in mixed electrolyte solution 71(1989)277

A. Yamauchi, Y. Hirata and M. Shinoda
Relation between transport number and concentration of Donnan salt in membranes 80(1991)61

Hirokawa H.

T. Oe, H. Koide, H. Hirokawa and K. Okukawa
Performance of membrane filtration system used for water treatment 106(1996)107

Hirschmann J. R.

J.R. Hirschmann
Solar distillation in Chile 17(1975)17

Hitchcock P.A.

G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope 8(1970)369

G.J. Gittens, P.A. Hitchcock and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope 12(1973)315

Ho G.

R. Robinson, G. Ho and K. Mathew
Development of a reliable low-cost reverse osmosis desalination unit for remote communities 86(1992)9

G. Ho
Localized treatment and reuse of wastewater: Science, technology and management 106(1996)291

Ho I Chien

Yao Tzu Li and I Chien Ho
Orbital tube evaporation and distillation systems 65(1987)87

Ho J.C.

A. Malek, M.N.A. Hawlader and J.C. Ho
Simplified Ohya-Sourirajan analysis for predicting permeator performance 91(1993)265

A. Malek, M.N.A. Hawlader and J.C. Ho
A lumped transport parameter approach in predicting B10 RO permeator performance 99(1994)19

A. Malek, M.N.A. Hawlader and J.C. Ho
Design and economics of RO seawater desalination 105(1996)245

Ho L. Y. S.

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation 5(1968)237

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization 6(1969)131

Ho P.S.K.

B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak
An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents 25(1978)45

Hobler M.

H. Bender, M. Hobler, H. Klinge and K. Schelkes
Investigations of groundwater resources in Central Jordan 72(1989)161

Hodgdon R. B.

R.B. Hodgdon, E. Witt and S.S. Alexander
Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants 13(1973)105

Hodgkiess T.

T. Hodgkiess, N. Eid and W.T. Hanbury
Corrosion of welds in seawater 27(1978)129

W.T. Hanbury, W.S. McCartney, J. Cunningham and T. Hodgkiess
Twelve years of postgraduate education in desalination 30(1979)449

T. Hodgkiess, W.T. Hanbury, M. Arndt and N. Eid
Corrosion of welded samples in seawater 31(1979)399

T. Hodgkiess and A. Asimakopoulos
Studies of the localized-corrosion behaviour of some stainless steels, Incoloy 825 and titanium in seawater 38(1981)247

T. Hodgkiess, W.T. Hanbury and M.H. Hejazian
Corrosion tests of a range of materials in three MSF plants 44(1983)223

T. Hodgkiess and S. Rigas
A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C 44(1983)283

T. Hodgkiess, N.K. Ng and P. Argyropoulos
The corrosion behaviour of a number of materials exposed to bromine-containing environments 55(1985)229

W.T. Hanbury and T. Hodgkiess
Membrane distillation — An assessment 56(1985)287

T. Hodgkiess, A. Maciver and P.Y. Chong
Galvanic studies related to the use in desalination plant of corrosion-resistant materials 66(1987)147

T. Hodgkiess and P.S. Chia
Assessment of lower-alloy stainless steels for use in desalination plant 84(1991)267

S. Avlonitis, W.T. Hanbury and T. Hodgkiess
Chlorine degradation of aromatic polyamides 85(1992)321

T. Hodgkiess
Current status of materials selection for MSF distillation plants 93(1993)445

Hodgson A.S.

A.S. Hodgson
Comparison of practical operating data and computer simulation of seawater reverse osmosis plant 11(1972)113

Hodgson T.D.

T.D. Hodgson
Selective properties of cellulose acetate membranes towards ions in aqueous solutions 8(1970)99

M.N. Elliot, T.D. Hodgson and A. Harris
Additives for alkaline scale control at temperatures above 93°C (200°F) 14(1974)43

T.D. Hodgson, M.N. Elliot and T.W.J. Jordan
Calcium sulphate scaling in falling film evaporators 14(1974)77

I.H. Newson and T.D. Hodgson
The development of enhanced heat transfer condenser tubing 14(1974)291

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Hoemig H.E.

H.E. Hoemig and B.R. Soeltner
Reliability in estimating investment costs for large MSF-plants 30(1979)515

R. Al-Assar, H.E. Hömig and K. Maurath
Cost of producing power and water in a combined power station and seawater desalination plant 40(1982)311

R.F. Elsaesser and H.E. Hoemig
Basic considerations influencing the choice of materials for thermal seawater desalination plants 49(1984)335

Hoernschemeyer D. L.

C.W. Saltonstall, Jr., W.M. King and D.L. Hoernschemeyer
A new method for measuring diffusion coefficients of electrolytes in nonionic membranes 4(1968)309

Hoeting W. A. G.

W.A.G. Hoeting
Seawater reverse osmosis with energy recovery 40(1982)357

Hoffer E.

E. Hoffer and O. Kedem
Hyperfiltration in charged membranes: the fixed charge model 2(1967)25

E. Hoffer and O. Kedem
Negative rejection of acids and separation of ions by hyperfiltration 5(1968)167

Hoffman D.

D. Hoffman
Second generation low temperature vapor compression plants 23(1977)449

D. Hoffman
The application of solar energy for large-scale seawater desalination 89(1992)115

Hoffman F. W.

F.W. Hoffman
Current status of the Calfran process 67(1987)185

Hoffmann H.

E. Staude, W. Assenmacher and H. Hoffmann
Hyperfiltration of surfactants containing solutions from the plating industry 49(1984)321

Hofman J. M.

J.C. Schippers, J. Verdouw and J.M. Hofman
Pretreatment of reverse osmosis feedwater by means of in line coagulation 32(1980)103

Hogan P. A.

P.A. Hogan, Sudjito, A.G. Fane and G.L. Morrison
Desalination by solar heated membrane distillation 81(1991)81

Hohenhinnebusch W.

H. Laban and W. Hohenhinnebusch
Combination of a sea-water flash-distillation plant with a nuclear plant arising from experience gained with conventional installations 5 suppl.(1969)93

Hojainov Yu.

Y. Dytnersky and Y. Hojainov
Extraction and utilization of valuable components from ocean water 81(1991)261

Holden P.

D. Squire, J. Murrer, P. Holden and C. Fitzpatrick
Disposal of reverse osmosis membrane concentrate 108(1996)143

Höll W.

W. Höll and G. Geiselhart
Kinetics of the neutralisation of weak acid ion-exchange resins with different solutions 25(1978)217

W. Höll and R. Kirch
Regeneration of weak base ion exchange resins 26(1978)153

W. Höll and B. Kiehling
Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material 48(1983)253

Hollein H. C.

C.S. Slater and H.C. Hollein
Educational initiatives in teaching membrane technology 90(1993)291

Holmes A.

J. Cunningham and A. Holmes
The effect of air on condensation on a roped tube 38(1981)65

Honda T.

E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki
Synthesis of poly(2,5-pyridinedicarboxylic acid-alt-hydrazine) and reverse osmosis performance of its membranes 94(1993)25

T. Honda and Y. Kugawa
Recycling of sewage treatment water by ozone 98(1994)327

Hong S.-K

J. Glater, S.-K Hong and M. Elimelech
The search for a chlorine-resistant reverse osmosis membrane 95(1994)325

Honma K.

T. Fukuda, T. Fukami, Y. Baba and K. Honma
Clad steel for seawater service 97(1994)121

Hooper A. T.

A.T. Hooper and H.B. Jackson
Distillation of seawater as a supplementary water resource 19(1976)241

Hooper J.L.

R. Blevitt and J.L. Hooper
Design and operation of a 5000 m3/d reverse osmosis dual product plant 20(1977)119

Hoornaert P.

P. Hoornaert, C. Lefebvre and A. Van Haute
Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes 11(1972)315

Hopfenberg H. B.

H.B. Hopfenberg, K.L. Lee and C.P. Wen
Improved membrane separations by selective chelation of metal ions in aqueous feeds 24(1978)175

Hopkins D. N.

Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins
Desalination by the improved vacuum freezing high pressure ice melting process 42(1982)141

Höpner T.

T. Höpner and J. Windelberg
Elements of environmental impact studies on coastal desalination plants 108(1996)11

Hori J.

J. Hori
Desalination plants with a capacity of more than 95m3/d installed by Japanese manufacturers (as of January 1, 1984) 52(1984)87

J. Hori
Inventory of land-based desalting plants installed by Japanese manufacturers as of January 1, 1986 60(1986)267

Horigome S.

Y. Taniguchi and S. Horigome
Membrane-water distribution coefficients of ions in cellulose acetate membrane 16(1975)395

Horii Y.

T. Kawanishi, S. Matsumoto, Y. Horii and M. Masuzaki
Desalination for landfill leachates containing condensed inorganic salts 97(1994)415

Horio K.

K. Horio
Eight-year operational experience with a 13,400 m3/d reverse osmosis desalination plant at Kashima Works of Sumitomo Metals 32(1980)211

Horn O. E.

L.F. Giannuzzi, O.E. Horn and M. Nakhamkin
Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements 39(1981)437

Hornburg C. D.

C.D. Hornburg and J.E. Cruver
Dual purpose power/water plants utilizing both distillation and reverse osmosis 20(1977)27

C.D. Hornburg and O.J. Morin, Jr.
Design aspects of large sea water reverse osmosis desalination piants 45(1983)241

C.D. Hornburg
Analysis of desalination alternates for phosphoric acid plant in Tunisia 55(1985)571

B.M. Watson and C.D. Hornburg
Low-energy membrane nanofiltration for removal of color, organics and hardness from drinking water supplies 72(1989)11

W.J. Conlon, C.D. Hornburg, B.M. Watson and C.A. Kiefer
Membrane softening: The concept and its application to municipal water supply 78(1990)157

C.D. Hornburg and B.M. Watson
Operational optimization of MSF systems 92(1993)333

B.M. Watson, C.D. Hornburg and R. Collins
Blending and post-treatment protocols for SDWA compliance — Hollywood (FL) water plant 102(1995)1

Hornsby M. R.

N.M. Wade and M.R. Hornsby
Distillation and reverse osmosis: energy consumption and costs 40(1982)245

Horowitz R. H.

A.Z. Barak, L. Awerbuch and R.H. Horowitz
The Joint United States/Israel desalination project: Progress report 23(1977)553

Hotogi A.

K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby
Development of new type thermally regenerable ion exchange plant 22(1977)505

Hou TaiPing

Hou Tai-Ping, Dong Sheng-Hua and Zhehg Ling-Ying
The study of mechanism of organic additives action in the polysulfone membrane casting solution 83(1991)343

Houle E. H.

S.C. May, E.H. Houle, S.A. Reed and W.F. Savage
Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant 30(1979)605

D. Blackson, B.W. Reyes, J.W. Kluesener and E.H. Houle
Water reclamation for power plant cooling 56(1985)175

Houston D. G.

D.G. Houston
Innovative wastewater reclamation financing applied to desalination projects 102(1995)163

Howarth D. A.

A.A. Al-Khafaji and D.A. Howarth
Wastewater reclamation and reuse in Europe, Middle East and North Africa 75(1989)289

Howe E. D.

E.D. Howe and B.W. Tleimat
Solar distillers for use on coral islands 2(1967)109

B.W. Tleimat, E.D. Howe and A.D.K. Laird
Assessment of vapor compression distillation 2(1967)287

B.W. Tleimat, E.D. Howe and A.D.K. Laird
Solar-assisted still with vapor-compression option 22(1977)41

E.D. Howe
Measurements and control in solar distillation plants 59(1986)307

Howell J. A.

P. Heinemann, J.A. Howell and R.A. Bryan
Microfiltration of protein solutions: Effect of fouling on rejection 68(1988)243

S.M. Finnigan and J.A. Howell
The effect of pulsed flow on ultrafiltration fluxes in a baffled tubular membrane system 79(1990)181

Howles S.

A.J. Emmett, S. Clarke and S. Howles
Conjunctive wetland treatment/aquifer storage and recovery at Regent Gardens residential development, Northfield, South Australia 106(1996)407

Hsairi M.

M.T. Chaibi, M.J. Safi and M. Hsairi
Performance analysis of a solar desalting unit in South Tunisia 82(1991)197

Hsiao Joyce S.

B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
Health and safety aspects of irrigation of raw eaten food crops with reused water 39(1981)491

Hsieh Fuhung

T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan
Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications 32(1980)181

Hsieh K. H.

K.H. Hsieh, B.Y. Lin and W.Y. Chiu
Studies on diisocyanate-modified cellulose acetate membranes 71(1989)97

Hsieh W. S.

J.R. Stange and W.S. Hsieh
Considerations in the site selection and equipment specification for the Yanbu 380 m3/ hr desalination plant 31(1979)69

W.S. Hsieh and J.R. Stange
Waterhammer studies of power/desal plants cooling water system with common discharge conduit 31(1979)183

Hsiue Gingho

Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh
Treatment of uranium effluent by reverse osmosis membrane 71(1989)35

Hsu I.C.

A.H. Abdelmessih and I.C. Hsu
The effect of hydraulic jump on the performance of a single-stage flash evaporator 19(1976)65

Hu Binghchen

Bingchen Hu, Deqian Ren, Rongen Xu and Dingyi Yu
The development of the spiral-wound reverse osmosis (RO) modules 54(1985)105

Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu
Long-term tests on a model SRO-80-1000 spiral-wound RO prototype 62(1987)233

Hu Giajun

Shusen Wang and Giajun Hu
Membrane fouling and determination of gel layer growth rate in membrane separation 56(1985)405

Hu Jiajun

Jiajun Hu, Dekuan Kang and Chen Chen
A preliminary probe about effects of organic solvent in membranes casting solution — Effects of poor solution 56(1985)333

Hu Jiajun
Prediction of membrane properties using phase diagrams in the polymer-solvent-precipitant system 62(1987)49

Guo Yunlan, Shi Mingren and Hu Jiajun
Optimization in the preparation of polysulfone ultrafiltration membranes 62(1987)173

Hu ZhaoYing

X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li
Effect of characterizations of spacer in electrodialysis cells on mass transfer 46(1983)243

Xuewen Zhong, Weirun Zhang, Zhaoying Hu and Hungchai Li
Experimental study of flow distribution features in the electrodialyzer 56(1985)413

Huang C. J.

C.J. Huang, H.M. Lee and A.E. Dukler
Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion 6(1969)25

Huang J. S.

A.J. Barduhn and J.S. Huang
Why does ice grow faster from salt water than from fresh water? 67(1987)99

Huang Tingchia

Tingchia Huang and Tentsai Wang
A study on the transport behavior of cations in ion exchange membrane electrodialysis 21(1977)327

Tingchia Huang and Jaukai Wang
Preferential transport of nickel and cupric ions through cation exchange membrane in electrodialysis with a complex agent 86(1992)257

Hubbard G. L.

A.F. Mills, G.L. Hubbard, R.K. James and C. Tan
Experimental study of film condensation on horizontal grooved tubes 16(1975)121

Huerta B. H.

C.A. Fernández, B.H. Huerta and F.E. Latapí
Feasibility of seawater desalination to solve water shortage problems of the Salina Cruz (Pemex) refinery 73(1989)61

Hughes C.H.

I. Kamal and C.H. Hughes
The VTE boiler: An advanced thermal system for the desalination of sea water 31(1979)152

I. Kamal and C.H. Hughes
The VTE boiler: An advanced thermal system for the desalination of sea water 31(1979)533

M.F. Al-Ghamdi, C.H. Hughes and S. Kotake
The Makkah-Taif MSF desalination plant 66(1987)3

Hughes jr. M.V.

M.V. Hughes, Jr.
Water requirements and desalting in the United States of America 21(1977)301

Hult J. L.

J.L. Hult
Icebergs for reservoirs, fresh water and cooling 29(1979)41

J.L. Hult and N.C. Ostrander
Harnessing and exporting Antarctic icebergs 29(1979)43

J.L. Hult
Selecting and acquiring Antarctic icebergs for export 29(1979)45

J.L. Hult
Protecting Antarctic icebergs for export 29(1979)97

J.L. Hult
Legal and environmental concerns in using icebergs 29(1979)165

Hultin G. O.

G.O. Hultin and R. Harper
Desalination plant control with microprocessor based digital technology 45(1983)329

Humphries J.R.

J.R. Humphries and E. Middleton
CANDESAL: A Canadian Nuclear Desalination System 99(1994)329

Hung C.-C.

C.-C. Hung and C. Tien
Effect of particle deposition on the reduction of water flux in reverse osmosis 18(1976)173

Hunt J. R.

A.C. Molseed, J.R. Hunt and M.W. Cowin
Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods 61(1987)249

Hunt J. W.

J.W. Hunt, K. Treffry-Goatley, R.L.C. Flemmer, J.D. Raal and C.A. Buckley
A mathematical model of steady-state cross-flow microfiltration in a woven hose support 61(1987)187

J.W. Hunt, C.J. Brouckaert, J.D. Raal, K. Treffry-Goatley and C.A. Buckley
The unsteady-state modelling of cross-flow microfiltration 64(1987)431

Hunter J. A.

J.A. Hunter
Engineering developments in the OSW program 3(1967)384

J.A. Hunter
United States-Mexico-IAEA study of large nuclear-power and water-desalination plants for south-west United States of America and northern Mexico 5 suppl.(1969)189

J.A. Hunter and W.F. Savage
The U.S. desalting program 6(1969)285

Hurndall M. J.

M.J. Hurndall, E.P. Jacobs and R.D. Sanderson
The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I. 86(1992)135

M.J. Hurndall, E.P. Jacobs, A.J. Van Reenen and R.D. Sanderson
Modified poly-2-vinylimidazoline reverse osmosis membranes. II 89(1992)203

M.J. Hurndall, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(2-vinylimidazoline) composite reverse osmosis membranes 90(1993)41

Husain A.

A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation 92(1993)21

A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control 92(1993)43

A.F. Abdulbary, L.L. Lai, D.M.K. Al-Gobaisi and A. Husain
Experience of using the neural network approach for identification of MSF desalination plants 92(1993)323

K. Habib and A. Husain
Stress corrosion cracking of copper-nickel alloys in sulphide polluted natural seawater at moderate temperatures 97(1994)29

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

A. Husain, K. Habib and R. Jarman
The inhibition effect of sodium molybdate on the initiation of corrosion fatigue of 1020 mild steel in aqueous solution 99(1994)113

Husain T.

T. Husain, H.U. Khan and S.M. Khan
Evaluation of water resources alternatives in Saudi Arabia in multi-objective framework 81(1991)77

Husseiny A. A.

A.M. El-Nashar and A.A. Husseiny
Engineering aspects of a dual-purpose electrical power generating hyperfiltration desalting plant for a middletown Arabia 19(1976)189

S. Galal and A.A. Husseiny
Status of desalination research and technology in the Middle East 20(1977)217

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal
Prospects of the exploitation of advanced energy resources in water production in the Middle East 20(1977)279

F. Elashmawi and A.A. Husseiny
Environmental and engineering problems of an agro-industrial complex for the North Eastern region of the Mediterranean 20(1977)289

A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri
Desalting in Saudi Arabia - demand, production, management, associated power generation and future plans 25(1978)9

A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri
Nuclear desalination for Saudi Arabia: An appraisal 25(1978)163

A.F. Abdul-Fattah and A.A. Husseiny
Engineering management of nuclear desalination plants — A case study, Saudi Arabia 27(1978)283

A.F. Abdul-Fattah and A.A. Husseiny
Multiattribute decision analysis of desalination plant engineering management options with applications to Saudi Arabia 28(1979)253

A.A. Bushnak, A.F. Abdul-Fattah, A.A. Husseiny and A.M. El-Nashar
Selection of desalination technology, a decision analysis approach and a case study 30(1979)483

A. Unione, E. Burns and A. Husseiny
Reliability analysis of desalination equipment 32(1980)225

A.M. El-Nashar and A.A. Husseiny
Design aspects of a solar assisted reverse osmosis desalting unit for urban communities 32(1980)239

A. Unione, E. Burns and A.A. Husseiny
MSF desalination plants. Availability, reliability and safety analysis 33(1980)49

R. Kenarangui, A. Husseiny and Z. Sabri
A comprehensive formal approach to the evaluation of bids for desalination plants using verbal judgment 33(1980)311

J.J. Turnage and A.A. Husseiny
An assessment of the market potential for small solar powered desalination plants 39(1981)43

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione
Design of a small solar-powered desalination system 39(1981)71

A.A. Husseiny and H.L. Hamester
Engineering design of a 6000 m3/day seawater hybrid RO-ED helio-desalting plant 39(1981)171

I.I. Kutbi, A.M. Metwally, Z.A. Sabri and A.A. Husseiny
Reliability of the Jeddah seawater RO desalination plant based upon operations experience 39(1981)179

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Performance evaluation of MSF plants, the case of Jeddah plants 39(1981)193

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Reliability of MSF processes based on operation history 41(1982)81

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Operational data analysis of MSF desalination plants. A case study of Jeddah I 42(1982)163

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Reliability analysis of reverse osmosis plant 42(1982)291

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Selection for desalination processes for dual-purpose nuclear plants 58(1986)113

Hutchinson M.

H.C. Simpson and M. Hutchinson
Calcium sulphate scale deposition in sea water evaporators 2(1967)308

Huyghe J

J. Huyghe, G. Barois, A. Michel and H. Mondin
Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel (in French) 4(1968)209

P. Balligand, J.P. Agostini, J. Huyghe, F. Lauro and P. Vignet
Etude d'usines de dessalement associées à un réacteur nucléaire du type uranium naturel-gaz-graphite et fonctionnant suivant différents procédés de distillation 5 suppl.(1969)425

G. Coury, J.C. Deronzier and J. Huyghe
Study of the flash mechanism in complex geometry (in French) 12(1973)295

Hwang C. L.

L.T. Fan, C.Y. Cheng, L.E. Erickson and C.L. Hwang
Optimal design of desalination systems 3(1967)225

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis 4(1968)336

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization 4(1968)361

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part I. Process analysis and simulation 5(1968)237

L.T. Fan, C.Y. Cheng, L.Y.S. Ho, C.L. Hwang and L.E. Erickson
Analysis and optimization of a reverse osmosis water purification system. Part II. Optimization 6(1969)131

L.T. Fan, C.L. Hwang, N.C. Pereira, L.E. Erickson and C.Y. Cheng
Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization 11(1972)217

LL.E. Stamets, L.T. Fan and C.L. Hwang
Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis 11(1972)239

Ibarra-Herrera X.

X. Ibarra-Herrera
Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes 30(1979)91

Iborra M.I.

M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal
Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination 108(1996)83

Ibrahim J.

S. Mukhamer and J. Ibrahim
Egyptian experience in utilizing recycled water for irrigation purposes 93(1993)633

Iddan G.

D. Pnueli and G. Iddan
Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface 9(1971)285

Ide Y.

O. Miyatake, T. Tomimura, Y. Ide and T. Fujii
An experimental study of spray flash evaporation 36(1981)113

O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii
Effect of liquid temperature on spray flash evaporation 37(1981)351

Idris A.

N.H.A. Hamid and A. Idris
Towards a sludgeless heavy metal finishing industry for a cleaner environment 106(1996)411

N. Sapari, A. Idris and N.H.A. Hamid
Total removal of heavy metal from mixed plating rinse wastewater 106(1996)419

Igawa M.

M. Igawa, S. Yoshida, T. Yamabe and N. Takai
The permselective coefficient of inorganic ions on reverse osmosis membrane 17(1975)257

M. Igawa, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by dynamic membranes 22(1977)281

Ikeda G.

S. Kimura, T. Nomura and G. Ikeda
Desalination by the newly developed reverse osmosis module 22(1977)263

Ikeda K.

R. Endon, T. Tanaka, M. Kurihara and K. Ikeda
New polymeric materials for reverse osmosis membranes 21(1977)35

K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
New composite charged reverse osmosis membrane 68(1988)109

K. Ikeda and J. Tomaschke
Noble reverse osmosis composite membrane 96(1994)113

Ikeda T.

T. Ikeda, H. Muragishi, R. Bairinji and T. Uemura
Advanced reverse osmosis membrane modules for novel ultrapure water production process 98(1994)391

Ikenaga Y.

K. Yokoyama, Y. Ikenaga and T. Yamamoto
Operating characteristics of 30,000 t/d module MSF test plant 22(1977)151

K. Yokoyama, Y. Ikenaga, S. Inoue and T. Yamamoto
Analysis of start-up characteristics of commercial MSF plant 22(1977)395

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Iljina I. P.

O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
Make-up water treatment at thermal power plants and multiple waste water reuse 47(1983)321

Iljushchenko V. V.

S.I. Golub, V.V. Iljushchenko, S.V. Grigorenko, U.V. Kartowsky and N.K. Tokmantsev
On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types 44(1983)137

V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub
Influence of spray density on coefficient of gas dynamic resistance for tube bundles of different configuration 74(1989)383

V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub
Interaction of spraying liquid and vapour in horizontal tube film evaporators 74(1989)391

V.V. Iljushchenko, A.M. Rosen and S.I. Golub
General approach to the drop entrainment calculation in heat- and mass-transfer apparatus 81(1991)383

Ilyina I.P.

A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina
Small-waste technology of processing industrial waste water on the basis of thermal demineralization 108(1996)361

Imai H.

M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai
Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant 76(1989)75

Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama
Performance of reverse osmosis membrane in Jeddah Phase I plant 96(1994)215

Imai K.

K. Ishiguro, K. Imai and S. Sawada
Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system 98(1994)119

Imai M.

T. Saitoh, H. Nagai, M. Imai, K. Nakajima and M. Tujimura
Simultaneous removal of DO and TOC in ultrapure water by using UV rays 98(1994)249

Imaizumi M.

T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi
RO applications in wastewater reclamation for re-use 23(1977)65

Imam S.

S. Imam and S. Begum
The Yathrib system 96(1994)119

Imamura Y.

S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru
Treatment of highly fouling waste waters with tubular membrane systems 49(1984)347

Imasu K.

K. Imasu
Wastewater recycle in the plating industry using brackish water reverse osmosis elements 56(1985)137

Imatake T.

N. Noguchi, S. Sato, T. Imatake, T. Matsuhara and T. Hamada
Prevention of scale and corrosion on flash evaporators 5 suppl.(1969)879

Immelman E.

R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen
Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes 90(1993)15

E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-alt-maleic anhydride) 94(1993)37

E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate 94(1993)115

Indusekhar V. K.

B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy
Demineralization with ion-exchange materials 3(1967)183

V.K. Indusekhar and N. Krishnaswamy
Polarization studies on interpolymer ion exchange membranes 48(1983)267

V.K. Indusekhar and N. Krishnaswamy
Water transport studies on interpolymer ion-exchange membranes 52(1985)309

S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
Desalination of brackish water of higher salinity by electrodialysis 84(1991)189

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

V.K. Indusekhar, G.S. Trivedi and B.G. Shah
Removal of nitrate by electrodialysis 84(1991)213

Ingel G.

D. Moalem-Maron, G. Ingel and N. Brauner
Wettability and break-up of thin films on inclined surfaces with continuous and intermittent feed 42(1982)87

Inohara S.

A. Furuki, K. Hamanaka, M. Tatsumoto and S. Inohara
Automatic control system of MSF process (Acsode®) 55(1985)77

Inoue G.

G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi
Water re-use in fiber dyeing industry 23(1977)133

G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama
Advanced treatment of secondary sewage effluent by membrane process 39(1981)423

N. Shindo, Y. Otani, G. Inoue and K. Kawazoe
Water treatment by pitch-based activated carbon fiber 98(1994)155

M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka
Treatment of concentrated cyanide wastewater 98(1994)345

Inoue K.

I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
New thin-film composite low pressure reverse osmosis membranes and spiral wound modules 64(1987)387

Inoue S.

H. Satone, S. Funahashi and S. Inoue
Experiences on VTE distillation plants in Japan 22(1977)169

K. Yokoyama, Y. Ikenaga, S. Inoue and T. Yamamoto
Analysis of start-up characteristics of commercial MSF plant 22(1977)395

T.J. Rabas, S. Inoue and A. Shimizu
An update on the mass transfer of counterflow, packed deaerators containing pall-ring packing 66(1987)91

Inujima K.

S. Iwai, T. Kitao, H. Ohmori and K. Inujima
Reuse of drainage from an office building 23(1977)171-181, Err. 25(1978)215

Iordanskii A.L.

A.L. Iordanskii, L.P. Razumovskii, A.V. Krivandin and T.L. Lebedeva
Diffusion and sorption of water in moderately hydrophilic polymers: From segmented polyetherurethanes to poly-3-hydroxybutyrate 104(1996)27

A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov
Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes 104(1996)113

Iovchev see Yovchev M.

M. Iovchev and I. Bankovska
Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with some reducing agents at various temperatures 42(1982)221

M. Iovchev
Aluminium-thiourea inhibitors of mild steel corrosion in high specific salinity water. Compatibility with calcium, magnesium and ferrous ions at various temperatures 52(1985)285

Irwin R.

V. Gadani, R. Irwin and V. Mandra
Ultrafiltration as a tertiary treatment: Joint research program on membranes 106(1996)47

Isdale J.D.

J.D. Isdale, C.M. Spence and J.S. Tudhope
Physical properties of sea water solutions: Viscosity 10(1972)319

J.D. Isdale and R. Morris
Physical properties of sea water solutions: Density 10(1972)329

Isenberg J.

S. Sideman and J. Isenberg
Direct contact heat transfer with change of phase: bubble growth in three-phase systems 2(1967)207

Ishibashi N.

C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler
Polarization at ion-exchange membranes in electrodialysis 10(1972)181

Ishida H.

H. Kishino, H. Ishida, H. Iwabu and I. Nakano
Domestic wastewater reuse using a submerged membrane bioreactor 106(1996)115

Ishida T.

T. Kawahara, K. Asada and T. Ishida
The development of a new electrodialyzer for desalination 23(1977)213

Ishida Y.

A. Higuchi, Y. Ishida and T. Nakagawa
Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan 90(1993)127

Ishiguro K.

K. Ishiguro, K. Imai and S. Sawada
Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system 98(1994)119

Ishii K.

A.M. El-Nashar and K. Ishii
Abu Dhabi solar distillation plant 52(1985)217

Ishii T.

T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto
Preliminary experiment on seawater pretreatment with UF membranes for RO desalination 93(1993)235

Ishimaru N.

N. Ishimaru
Solar photovoltaic desalination of brackish water in remote areas by electrodualysis 98(1994)485

Ishizaka S.

S. Ishizaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna
Technical aspects of desalination in Japan - present and future 5 suppl.(1969)63

H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka
Analysis of reverse osmotic characteristics of American-standard type tubular module 16(1975)235

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results 21(1977)11

T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa
Concentration of heavy water in seawater distillation process 25(1978)61

Ishizuka H.

S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru
Treatment of highly fouling waste waters with tubular membrane systems 49(1984)347

Ismail A.

A. Ismail
Robust control with engineering applications: An overview 92(1993)57

Ismail B.

F.A. Al-Sulaiman and B. Ismail
Exergy analysis of major recirculating multi-stage flash desalting plants in Saudi Arabia 103(1995)265

Isnasious E.Z.

F.S. Al-Kebti, E.Z. Isnasious and A.M. Al-Mahyas
Practical observations on reverse osmosis plants including raw water contamination problems, different intake stations and permeator performance 93(1993)259

Iso S.

S. Iso
Problems on sea water intake and discharge facilities in coastal region 22(1977)159

S. Iso, S. Suizu and A. Maejima
The lethal effect of hypertonic solutions and avoidance of marine organisms in relation to the discharged brine from a desalination plant 97(1994)389

Isobe K.

Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas
The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai 83(1991)65

Isozaki A.

K. Mimura and A. Isozaki
Heat transfer and pressure drop of corrugated tubes 22(1977)131

Isquith I. R.

H. Winters and I.R. Isquith
In-plant microfouling in desalination 30(1979)387

H. Winters, I.R. Isquith and R. Bakish
Influence of desalination effluents on marine ecosystems 30(1979)403

H. Winters, I. Isquith, W.A. Arthur and A. Mindler
Control of biological fouling in seawater reverse osmosis desalination 47(1983)233

I.R. Isquith and H. Winters
The microbial analysis of domestic cistern water in the U.S. Virgin Islands 66(1987)415

Issar A.

A. Issar and G. Oron
Water from fossil aquifers as a potential supply source for solar desalination plants on a regional scale 40(1982)25

Istoshin A.G.

V.I. Zabolotsky, V.V. Nikonenko, N.D. Pismenskaya and A.G. Istoshin
Electrodialysis technology for deep demineralization of surface and ground water 108(1996)179

Itahara S.

S. Itahara and L.I. Stiel
The optimal design of multi-stage flash evaporators by dynamic programming 4(1968)248

Ito H.

I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
New thin-film composite low pressure reverse osmosis membranes and spiral wound modules 64(1987)387

K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
New composite charged reverse osmosis membrane 68(1988)109

Itoh S.

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama
Production of heavy oil from sewage sludge by direct thermochemical liquefaction 98(1994)127

Itoh Y.

Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa
Study on fouling materials in the membrane treatment process for potable water 106(1996)71

Itoi S.

S. Itoi
Ionic membrane electrodialyzer for marine use 2(1967)378

S. Itoi
Electrodialysis of effluents from treatment of metallic surfaces 28(1979)193

S. Itoi, I. Nakamura and T. Kawahara
Electrodialytic recovery process of metal finishing waste water 32(1980)383

Ivanova K.

I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova
Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production 67(1987)163

Ivekovic H.

D. Sambrailo, B. Kunst and H. Ivekovic
Reverse osmosis in seawater concentration 46(1983)125

Ivery G.

G. Ivery
Aerobic treatment units (ATUs): Appropriate technology for on-site wastewater treatment and re-use 106(1996)295

Iwabu H.

H. Kishino, H. Ishida, H. Iwabu and I. Nakano
Domestic wastewater reuse using a submerged membrane bioreactor 106(1996)115

Iwahashi H.

N. Nada, H. Iwahashi and F. Umemori
Test result of the intermittent chlorine injection method in Jeddah 1 plant 96(1994)283

M. Nagai, H. Iwahashi, Y. Hayashi and Y. Ogino
The behavior of an oxidizing/reducing agent in seawater 96(1994)291

N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi
The effect of heavy metal ions on the oxidation of cellulose triacetate membranes 96(1994)431

A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis 96(1994)451

Iwahori H.

S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru
Treatment of highly fouling waste waters with tubular membrane systems 49(1984)347

K. Tasaka, T. Katsura, H. Iwahori and Y. Kamiyama
Analysis of RO elements operated at more than 80 plants in Japan 96(1994)259

Iwai S.

S. Iwai, H. Ohmori and T. Tanaka
An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon 23(1977)29-36, Err. 25(1978)215

S. Iwai, T. Kitao, H. Ohmori and K. Inujima
Reuse of drainage from an office building 23(1977)171-181, Err. 25(1978)215

Iwatsuka T.

K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby
Development of new type thermally regenerable ion exchange plant 22(1977)505

Iyer P.A.

P.A. Iyer and Chieh Chu
Submerged combustion 9(1971)19

Izabel M.

A. Bernard, R. Lacroix and M. Izabel
Concrete structure for desalination plants (in French) 31(1979)385

Izumi K.

T. Sawa, K. Izumi and S. Takahashi
Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants 19(1976)369

T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome
The pH control in the large-scale MSF plants by using drop structure type decarbonator 22(1977)415

Izvekov A. V.

A.I. Korneichev, A.V. Izvekov and A.A. Myagkov
Optimization of basic parameters of thermal desalting plants with adiabatic evaporation 7(1970)179

Izvekov A. W.

A.I. Kornejitschev and A.W. Isvekov
Technical and economic analysis of several circuit diagrams of multi-stage flash distillation plants (in German) 5(1968)17

Jaakkola H.

H. Jaakkola
Cost effective evaporators for desalination 108(1996)357

Jabboury B. G.

B.G. Jabboury and M.A. Darwish
An interactive approach to combine desalting and power plants analysis 84(1991)106

Jackson G.

H.G. Blank and G. Jackson
AID's strategy for water resource management in the Middle East 99(1994)233

Jackson H.B.

A.T. Hooper and H.B. Jackson
Distillation of seawater as a supplementary water resource 19(1976)241

Jackson J.M.

J.M. Jackson and D. Landolt
About the mechanism of formation of iron hydroxide fouling layers on reverse osmosis membranes 12(1973)361

Jackson M.B.

B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak
An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents 25(1978)45

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities 34(1980)171

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins 42(1982)273

Jacobs E. P.

A.J. Van Reenen, E.P. Jacobs and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VIII. Alternative substrate materials for dynamic membranes 85(1992)263

M.J. Hurndall, E.P. Jacobs and R.D. Sanderson
The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I. 86(1992)135

M.J. Hurndall, E.P. Jacobs, A.J. Van Reenen and R.D. Sanderson
Modified poly-2-vinylimidazoline reverse osmosis membranes. II 89(1992)203

R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen
Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes 90(1993)15

M.J. Hurndall, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(2-vinylimidazoline) composite reverse osmosis membranes 90(1993)41

E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-alt-maleic anhydride) 94(1993)37

E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate 94(1993)115

Jaffer A. E.

S.R. Baggott and A. Jaffer
The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units 83(1991)119

A.E. Jaffer
The application of a novel chemical treatment program to mitigate scaling and fouling in reverse osmosis units 96(1994)71

Jagur-Grodzinski J.

J. Jagur-Grodzinski and O. Kedem
Transport coefficients and salt rejection in uncharged hyperfiltration membranes 1(1966)327

G. Tanny and J. Jagur-Grodzinski
Dynamically formed polyelectrolyte membranes on partially cured cellulose acetate 13(1973)53

B. Bikson, J. Jagur-Grodzinski and D. Vofsi
Morphology of polyethylene-based ion exchange membranes 24(1978)95

Jaksic M. M.

G. Niketic-Aleksic and M.M. Jaksic
Application of selective membranes in grape juice stabilization 35(1980)317

Jalali Ghajar G. H.

M. Emami, G.H. Jalali Ghajar and N. Kaynia
State of desalination projects in Iran 23(1977)465

James R. K.

A.F. Mills, G.L. Hubbard, R.K. James and C. Tan
Experimental study of film condensation on horizontal grooved tubes 16(1975)121

Jamieson D.T.

W.H. Emerson and D.T. Jamieson
Some physical properties of sea water in various concentrations 3(1967)213

D.T. Jamieson, J.S. Tudhope, R. Morris and G. Cartwright
Physical properties of sea water solutions: Heat capacity 7(1969)23

D.T. Jamieson and J.S. Tudhope
Physical properties of sea water solutions: thermal conductivity 8(1970)393

D.T. Jamieson
Experimental methods for the determination of the properties of saline water 59(1986)219

Jamjoom I. M. R.

A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton
The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia 27(1978)215

I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan
Saudi Arabian-U.S. joint agreement for technical cooperation in desalination 30(1979)247

C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton
Jeddah seawater reverse osmosis installation 30(1979)259

I.M.R. Jamjoom and G. Costes
Combined Yanbu and Medina power and desalination plant 30(1979)283

I.M.R. Jamjoom, P. Laesser and A.H. Feizlmayr
The Riyadh water transmission system (RWTS) 39(1981)241

Janisch V.

K. Kuenstle and V. Janisch
Optimization of a dual purpose plant for seawater desalination and electricity production 30(1979)555

H.J.T. Sousa and V. Janisch
Solar desalination based on the multi-cycle concept 67(1987)75

Jansen A. E.

H.F. Van Wijk, A.E. Jansen and R.J.M. Creusen
An optimized hyperfiltration process for concentrating aqueous solutions of high osmotic pressure 51(1984)103

Janzow E.F.

E.F. Janzow and B.T. Chao
Salt entrainment in ice crystallized from brine 12(1973)141

E.F. Janzow and B.T. Chao
Induced crystallization of large free ice crystals in slowly flowing brine 12(1973)163

Jaques R. S.

B. Sheikh, R.S. Jaques and R.P. Cort
Reuse of tertiary municipal wastewater effluent for irrigation of raw-eaten food crops: A five year field study 67(1987)245

Jarman R.

A. Husain, K. Habib and R. Jarman
The inhibition effect of sodium molybdate on the initiation of corrosion fatigue of 1020 mild steel in aqueous solution 99(1994)113

Jasner M.

M. Jasner
Application of an austenitic nitrogen-alloyed 6Mo stainless steel for seawater desalination (RO) and waste water treatment 84(1991)335

Jawad J. A.

Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar
Desalting saline ground water for agriculture 19(1976)175

Jawad M. A.

M.A. Jawad
Future for desalination by reverse osmosis 72(1989)23

Jemma M.

G. Carolei, C. Franzosi and M. Jemma
Dessalement de l'eau de mer et production d'énergie électrique: résultats d'exploitation des installations de l'Italsider à Tarente 5 suppl.(1969)111

Jendrychowska-Bonamour A.-M

A. Chapiro and A.-M. Jendrychowska-Bonamour
Synthesis of permselective membranes by radiation induced grafting of hydrophilic monomers into polytetrafluoroethylene films 24(1978)83

Jensen J. B.

T.S. Sørensen, J.B. Jensen and B. Malmgren-Hansen
Electromotive force and impedance studies of cellulose acetate membranes: Evidence for two binding sites for divalent cations and for an alveolar structure of the skin layer 80(1991)293

Jeppesen B.

B. Jeppesen
Domestic greywater re-use: Australia's challenge for the future 106(1996)311

Jernigan D. A.

C.A. Brandon, D.A. Jernigan, J.L. Gaddis and H.G. Spencer
Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration 39(1981)301

H.G. Spencer, D.B. McClellan, N.D. Ellis, D.A. Jernigan and D.N. Mahony
Concentration and recovery dependence of hyperfiltration system rejection of electrolytes by ion exchange membranes 61(1987)17

Jessee W. N.

D.L. Brining, W.C. Lester, W.N. Jessee, D.A. O'Leary, S. Bourgeois and M.S.A. Salam
Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region 39(1981)255

Jeyaseelan S.

J.H. Tay, S.C. Low and S. Jeyaseelan
Vacuum desalination for water purification using waste heat 106(1996)131

Jhawar M.

J.E. Cruver and M. Jhawar
New improvements in ultraviolet sterilization of desalted and reuse water 32(1980)365

Ji Jiang

Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan
Study on the interaction between membranes and organic solutes by the HPLC method 71(1989)107

Ji Jiang and Chen Jiayan
Study on interactions between PBIL membranes and organic solutes 78(1990)389

Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu
The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence) 85(1992)297

Jiang Changyin

Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin
Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes 62(1987)315

Jiang Chengzhang

Li Shuguang, Jiang Chengzhang and Zhang Yuanqi
The investigation of solution thermodynamics for the polysulfone—DMAC—water system 62(1987)79

Jiang Jianhua

Liu Yurong, Chen Yiming, Wang Lining and Jiang Jianhua
Study of stevioside preparation by membrane separation process 83(1991)375

Jiang Shouxiang

Yitang Chen, Qunshu Wang and Shouxiang Jiang
Abstracts from Technology of Water Treatment 79(1990)95

Jiang Weida

Weida Jiang and Dong Li
Low electrical consumption electrodialyser filling ion-exchange conducting spacers 54(1985)197

Jiang Weida, Li Yebing and Ye Hongwei
Study of the structure of the polyethylene-styrene copolymer by NMR 62(1987)373

Jirka G.

J.V. Del Bene, G. Jirka and J. Largier
Ocean brine disposal 97(1994)365

Jitsuhara I.

S. Kimura and I. Jitsuhara
Transport through charged ultrafiltration membranes 46(1983)407

Johansen, Jr. E. W.

E.W. Johansen, Jr. and D.C.M. Crabbe
Design parameters and operation of small and medium size municipal reverse osmosis in North America 20(1977)53

Johnson D.W.

D.W. Johnson, J.L. Lott and C.M. Sliepcevich
The exchange crystallization freeze desalination process 18(1976)231

Johnson J. S.

K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor
Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (I) 1(1966)225

K.A. Kraus, A.J. Shor and J.S. Johnson, Jr.
Hyperfiltration studies. X. Hyperfiltration with dynamically-formed membranes 2(1967)243

J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona
Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes 5(1968)359

S.B. Sachs, W.H. Baldwin and J.S. Johnson
Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes 6(1969)215

J.S. Johnson and J.W. McCutchan
Concentration polarization in the reverse osmosis desalination of sea water 10(1972)147

Johnson K. D. B.

K.D.B. Johnson, J.R. Grover and D. Pepper
Chemical engineering aspects of the reverse osmosis process 2(1967)40

K.D.B. Johnson and D.W. Clelland
Mobile and floating flash distillation plants 2(1967)170

P.T. Walker, I. Newson and K.D.B. Johnson
Development of direct contact flash distillation concepts 2(1967)196

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Johnson K. S.

K.S. Johnson
Contact stabilization of potential calcium carbonate scale by rhodochrosite 48(1983)17

Johnson R. A.

W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone
Spray freezer and pressurized counterwasher for freeze desalination 14(1974)249

G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson
Development of a eutectic freezing process for brine disposal 15(1974)25

O.J. Morin and R.A. Johnson
MSF evaporator fabricated from reinforced thermosetting materials 31(1979)355

Jin Sheng, R.A. Johnson and M.S. Lefebvre
Mass and heat transfer mechanisms in the osmotic distillation process 80(1991)113

Johnson W. E.

W.E. Johnson
State-of-the-art of freezing processes. Their potential and future 19(1976)349

W.E. Johnson
Indirect freezing 31(1979)417

A. Vaid, C. Kopp, W. Johnson and A.G. Fane
Integrated waste water treatment by coupled bioreactor and membrane system 83(1991)137

Johnston H. K.

H.K. Johnston
Reverse osmosis rejection on heavy metal cations 16(1975)205

Jolis D.

D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas
Desalination of municipal wastewater for horticultural reuse: Process description and evaluation 103(1995)1

Jones T. J.

B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
Health and safety aspects of irrigation of raw eaten food crops with reused water 39(1981)491

Jones Jr. J. E.

R.P. Hammond, D.M. Eissenberg, D.K. Emmerman, J.E. Jones, Jr. and H.H. Sephton
Large-scale sea-water distillation for Southern California 87(1992)69

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Jönsson A.-S.

A.-S. Jönsson and R. Wimmerstedt
The application of membrane technology in the pulp and paper industry 53(1985)181

A.-S. Jönsson, R. Wimmerstedt and A.-C. Harrysson
Membrane distillation — A theoretical study of evaporation through microporous membranes 56(1985)237

A.-S. Jönsson and G. Trägårdh
Ultrafiltration applications 77(1990)135

C. Jönsson and A.-S. Jönsson
The influence of degreasing agents used at car washes on the performance of ultrafiltration membranes 100(1995)115

K. Linde, A. Jönsson and R. Wimmerstedt
Treatment of three types of landfill leachate with reverse osmosis 101(1995)21

K. Linde and A.-S. Jönsson
Nanofiltration of salt solutions and landfille leachate 103(1995)223

A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström
Treatment of paper coating colour effluents by membrane filtration 105(1996)263

Jönsson C.

C. Jönsson and A.-S. Jönsson
The influence of degreasing agents used at car washes on the performance of ultrafiltration membranes 100(1995)115

A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström
Treatment of paper coating colour effluents by membrane filtration 105(1996)263

Jonsson G.

L. Kiørboe, C.E. Boesen and G. Jonsson
A method for the determination of the optimal reverse osmosis membrane for two-solute separation 12(1973)35

G. Jonsson and C.E. Boesen
Water and solute transport through cellulose acetate reverse osmosis membranes 17(1975)145

G. Jonsson and C.E. Boesen
Concentration polarization in a reverse osmosis test cell 21(1977)1

G. Jonsson and C.E. Boesen
The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes 24(1978)17

G. Jonsson
Methods for determining the selectivity of reverse osmosis membranes 24(1978)19

G. Jonsson and S. Kristensen
Membrane filtration of NSSC-waste liquor 32(1980)327

G. Jonsson
The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes 34(1980)141

G. Jonsson
Overview of theories for water and solute transport in UF/RO membranes 35(1980)21

P. Mosegaard and G. Jonsson
On the reproducibility of asymmetric cellulose acetate membranes 46(1983)313

J. Adduci, L.L. Chapoy, G. Jonsson, J. Kops and B.M. Shinde
Semi-stiff chain aromatic polyamic-acids: new candidates for reverse osmosis membranes 46(1983)349

G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard
The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes 46(1983)435

G. Jonsson
Boundary layer phenomena during ultrafiltration of dextran and whey protein solutions 51(1984)61

G. Jonsson
Molecular weight cut-off curves for ultrafiltration membranes of varying pore sizes 53(1985)3

D. Barba, F. Evangelista, G. Jonsson and L. Marrelli
An analytical method for design of electrodialysis stacks operated at high concentrations 71(1989)137

Jordan D. R.

T. Miwa, D.R. Jordan and W.F. McIlhenny
Seawater desalting by electrodialysis 20(1977)375

Jordan T.W.J.

T.D. Hodgson, M.N. Elliot and T.W.J. Jordan
Calcium sulphate scaling in falling film evaporators 14(1974)77

Joshi B. S.

B.S. Joshi and K.P. Govindan
Water softening by diffusion using cation exchange membranes 38(1981)509

Joshi S. V.

S.V. Joshi and A.V. Rao
Cellulose triacetate membranes for seawater desalination 51(1984)307

S.V. Joshi and A.V. Rao
Synthesis and evaluation of poly(m-phenylene isophthalamide) as a reverse osmosis membrane 78(1990)355

Judd S.J.

J.S. Baker, S.J. Judd and S.A. Parsons
Antiscale magnetic pretreatment of reverse osmosis feedwater 110(1997)151

Judges P. D.

G. Ali, J.H. Dalton, P.D. Judges and C. Tao
Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1 76(1989)27

Julka A.

J. Carew, M. Abdel-Jawad, A. Julka and Y. Al-Wazzan
Performance of materials used in seawater reverse osmosis plants 74(1989)85

K. Habib and A. Julka
Corrosion behavior of Al-Brass in polluted natural seawater 84(1991)350

Jundi Z. M.

Z.M. Jundi and B.W. Tleimat
Test results from a solar boiler for saline water distillation 39(1981)63

Jung D.

T. Baumgartner, D. Jung and R. Sizmann
Open multiple effect desalination with low temperature process heat 81(1991)299

Jung G.

R. El-Assar, G. Jung and G. Gerrard
Design features of seawater intake, distribution and outfall systems, applied to the Ruwais Utilities Complex, Abu Dhabi 45(1983)115

Juwayhel F.

M.A. Younis, M.A. Darwish and F. Juwayhel
Experimental and theoretical study of a humidification-dehumidification desalting system 94(1993)11

Jyline Y.

Q.T. Nguyen, Y. Jyline and J. Neel
Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid 36(1981)277

Kaakinen J. W.

C. van Hoek, J.W. Kaakinen and L.A. Haugseth
Ion exchange pretreatment using desalting plant concentrate for regeneration 19(1976)471

J.W. Kaakinen, R.J. Eisenhauer and C. van Hoek
High recovery in the Yuma desalting plant 23(1977)357

C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty
Yuma desalting test facility: Foulant component study 47(1983)239

Kabluchko N. A.

A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko
Some results of the investigations on corrosion protection of desalination plant equipment 44(1983)233

J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
Operating experience of desalination units in Schevchenko 45(1983)167

Kabsch-Korbutowicz M.

M. Kabsch-Korbutowicz and T. Winnicki
Application of modified polysulfone membranes to the treatment of water solutions containing humic substances and metal ions 105(1996)41

K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki
Capillary membranes for separation of dye particles 105(1996)91

K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki
Salt effect on the dye separation by hydrophilic membranes 108(1996)221

Kadaj R.

R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj
Operating experiences with seawater reverse osmosis plants in the Middle East 29(1979)319

R.A. Tidball and R. Kadaj
Waste heat powered reverse osmosis plants 39(1981)137

H. Kohli, D. Emmermann, R. Kadaj and H. Said
Hybrid desalting technology maximizes recovery 56(1985)61

R. Kadaj, D. McMillan and J. Losch
A low pressure reverse osmosis facility for Marco Island (FL) 102(1995)25

Kafarov V. V.

V.V. Kafarov and V.P. Meshalkin
Automated design of optimum pipeline in chemical industry 66(1987)119

Kafrawi M. S. I.

M.H.A. El-Saie, M.S.I. Kafrawi and A.K.T. Abdel Karim
Sea water intake and its effect on heat rejection design and material for flash distillation plant 38(1981)257

Kahana F.

S. Sarig, F. Kahana and R. Leshem
Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure 17(1975)215

Kahana N.

O. Kedem, J. Cohen, A. Warshawsky and N. Kahana
EDS: sealed cell electrodialysis 46(1983)291

Kain R. M.

J.W. Oldfield and R.M. Kain
Economic material selection for reverse osmosis desalination plants 84(1991)227

Kaipia L.

M. Nyström, K. Ruohomäki and L. Kaipia
Humic acid as a fouling agent in filtration 106(1996)79

Kaiya Y.

Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa
Study on fouling materials in the membrane treatment process for potable water 106(1996)71

Kaji A.

A. Kaji and M. Murano
Membrane for ethanol-water separation: Water selective membrane 54(1985)351

Kakihana H.

H. Kakihana and Y. Tsunoda
Dual-purpose nuclear power plant incorporating the production of salt 5 suppl.(1969)745

Kalif D.

J.N. Weinstein, B.M. Misra, D. Kalif and S.R. Caplan
Transport properties of charge-mosaic membranes. II. Experimental studies 12(1973)1

Kamal I.

I. Kamal, D.K. Emmermann and G.F. Tusel
RO, MSF and VTE/VC desalination: A comparative evaluation 30(1979)499

I. Kamal and C.H. Hughes
The VTE boiler: An advanced thermal system for the desalination of sea water 31(1979)152

I. Kamal and C.H. Hughes
The VTE boiler: An advanced thermal system for the desalination of sea water 31(1979)533

I. Kamal, D.K. Emmermann and G.F. Tusel
RO, MSF and VTE/VC desalination: A comparative evaluation 33(1980)229

G.F. Tusel and I. Kamal
Design of high efficiency single and dual purpose plants with gas turbines 38(1981)135

G.F. Tusel and I. Kamal
Analysis of water and power costs by various methods, based on Jeddah IV 38(1981)145

G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal
MEDA: A new thermal concept for desalting plants 38(1981)147

I. Kamal and G.F. Tusel
An evaluation of the energy requirements of desalination processes on the basis of the fuel use performance ratio 40(1982)283

F.G. Abbosh, I. Kamal, S. Chalchal and H. Gerke
Design and performance of the world's largest operating dual-purpose sea water desalting plant 45(1983)223

F.G. Abbosh and I. Kamal
Computer-based performance evaluation of dual-purpose steam turbine/multistage flash desalination plants 66(1987)127

I.Kamal, W. Schneider and G.F. Tusel
Process arrangements for hybrid sea water desalination plants 76(1989)323

I. Kamal
Cogeneration desalination with reverse osmosis: A means of augmenting water supplies in Southern California 88(1992)355

G.V. Sims and I. Kamal
Retrofitting and repowering of coastal power stations to augment water supplies in Southern California 94(1994)251

I. Kamal
An assessment of desalination technology for the Rosarito Repowering Project 102(1995)269

I. Kamal and G.V. Sims
Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants 109(1997)1

Kamaluddin B.A.

B.A. Kamaluddin, S. Khan and B. Makkawi-Ahmed
Selection of optimally matched cogeneration plants 93(1993)311

Kamel M. I.

M.H. Ali El Saie, M.S.I. El Kafrawi and M.I. Kamel
Study of the operating conditions for three large MSF desalination units each of capacity 7.2/8.6 mgd (27360/32832 ton/day) in Abu Dhabi, UAE 73(1989)207

Kamikubo F.

K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka
Corrosion resistance of titanium in MSF desalination plant 22(1977)403

T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo
Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube 31(1979)389

Kamiyama Y.

Y. Kamiyama, N. Yoshioka, K. Matsui and K. Nakagome
New thin-film composite reverse osmosis membranes and spiral wound modules 51(1984)79-92, Err. 51(1984)336

I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
New thin-film composite low pressure reverse osmosis membranes and spiral wound modules 64(1987)387

K. Tasaka, T. Katsura, H. Iwahori and Y. Kamiyama
Analysis of RO elements operated at more than 80 plants in Japan 96(1994)259

Kamizawa C.

H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis 25(1978)89

M. Matsuda, C. Kamizawa and H. Yoshitome
On the conditions of fabrication of tubular cellulose acetate membranes 27(1978)41

C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami
Studies on the treatment of gold plating rinse by reverse osmosis 27(1978)261

M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato
Recovery of gold from the plating rinse by adsorption with nylon fibers 29(1979)275

M. Matsuda and C. Kamizawa
Precise measurement of membrane constants of cellulose acetate membranes by direct osmosis tests 49(1984)367

Kanamaru N.

M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara
Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis 32(1980)13

M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi
Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials 38(1981)449

R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura
Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements 46(1983)57

M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura
Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules 46(1983)101

Kanda Y.

T. Nakahara, H. Sasaki, Y. Kanda and H. Togano
Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants 23(1977)151

Kane R. L.

N.G. Feige and R.L. Kane
Titanium for sea water distillation tubing 7(1969)17

Kane S. G.

S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim
The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers 17(1975)3

Kaneda H.

H. Ogasawara, Y. Kunisada, H. Kaneda and M. Hirai
Desalination in the reuse of industrial waste water 23(1977)113

Y. Kunisada, H. Kaneda, M. Hirai and Y. Murayama
Sea water desalination by reverse osmosis in Chigasaki Laboratory 30(1979)337

Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
Operating experience on RO sea water desalination plant at Chigasaki Laboratory 39(1981)413

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

Kanekuni N.

M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka
Small-scale sewage plant experiment by pretreatment and methanization of suspended solid 98(1994)217

Kang Dekuan

Jiajun Hu, Dekuan Kang and Chen Chen
A preliminary probe about effects of organic solvent in membranes casting solution — Effects of poor solution 56(1985)333

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Kang In Soek

In Ho Kim, In Soek Kang and Ho Nam Chang
Mass transfer in the U-turn of an electrodialyzer 33(1980)139

Kang M.

V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli
Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis 78(1990)257

Kannari T.

S.R. Ahmed, M.S. Alansari and T. Kannari
Biological fouling and control at Ras Abu Jarjur RO Plant - A new approach 74(1989)69

Kantor Y.

P. Glueckstern and Y. Kantor
Economic evaluation of using small sized nuclear reactors for seawater desalination 22(1977)101

P. Glueckstern, Y. Kantor and M. Wilf
Application of membrane processes for water supply in Israel 24(1978)365

P. Glueckstern, M. Wilf and Y. Kantor
Field testing and economic evaluation of RO seawater technology 30(1979)235

P. Glueckstern and Y. Kantor
Seawater vs. brackish water desalting: technology, operating problems and overall economics 44(1983)51

P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf
Desalination of high salinity brackish water. Low pressure reverse osmosis 58(1986)55

Kantsos E. T.

Y.G. Caouris, E.T. Kantsos and N.G.Zagouras
Economic aspects of low-temperature multi-effect desalination plants 71(1989)177

N.G. Zagouras and E.T. Kantsos
Engineering relations for economic production functions of solar low-temperature multi-effect desalination 78(1990)381

Kapadia R. N.

R.N. Kapadia and V.P. Pandya
Scanning electron microscopy study on reverse osmosis membranes prepared from Indian cellulosic polymers 34(1980)199

Kapur P.L.

P.L. Kapur and B.M. Misra
Some aspects of laboratory studies on alkaline scales 27(1978)65

Karakane H.

M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya
Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures 80(1991)139

Karamian N.A.

N.A. Karamian and P.F. Waters
A membrane for removing endotoxins from aqueous solutions 17(1975)329

Karasawa Mikio

N. Choji and M. Karasawa
Dyestuff diffusion from gas phase into HPET film 62(1987)55

Karelin F.N.

F.N. Karelin, A.A. Askerniya, M.L. Gril and O.F. Parilova
Salt concentration and recovery from aqueous solutions using pressure-driven membrane processes 104(1996)69

F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova
New solutions for construction of pressure-driven membrane equipment 108(1996)315

Karelin K. N.

K.N. Karelin
Principles of water desalination by hyperfiltration 3(1967)207

Karlin Y. V.

V.I. Demkin, Y.A. Tubashov, V.I. Panteleev and Y.V. Karlin
Cleaning low mineral water by electrodialysis 64(1987)367

Karnauknov L. P.

O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
Evaluation of thermal desalination plants water chemistry 47(1983)63

Karshman S. A.

A.I. El-Twaty and S.A. Karshman
Experience with desalination plants in Libya 73(1989)385

Kartinen Jr. E. O.

C.J. Martin, E.O. Kartinen, Jr. and J. Condon
Examination of processes for multiple contaminant removal from groundwater 102(1995)35

E.O. Kartinen, Jr. and C.J. Martin
An overview of arsenic removal processes 103(1995)79

Kartovski Y. V.

V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo
Test of the desalting flash pilot plant with recirculating seed 5(1968)34

Kartowsky U. V.

S.I. Golub, V.V. Iljushchenko, S.V. Grigorenko, U.V. Kartowsky and N.K. Tokmantsev
On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types 44(1983)137

Kasahara S.

H. Ohya, S. Kasahara and S. Sourirajan
Application of system analysis in two-stage reverse osmosis process design for water desalination 16(1975)375

Kasamatsu T.

Y. Murayama, T. Kasamatsu and J.G. Gaydos
Live seawater experience in Japan with hollow fiber permeators 19(1976)439

T. Kasamatsu and J.G. Gaydos
Reverse osmosis desalting plant for industrial water at Kashima in Japan 20(1977)335

Kaschemekat J.

K.W. Böddeker, W. Hilgendorff and J. Kaschemekat
Reverse osmosis sea water test facility on board NS Otto Hahn 18(1976)307

K.W. Böddeker, W. Hilgendorff and J. Kaschemekat
An alternative design concept in reverse osmosis desalination 20(1977)155

H. Finken, J. Kaschemekat and J. Mohn
Reverse osmosis: Field trials of a GKSS plate module plant on Baltic Sea water 29(1979)285

J. Kaschemekat and K.W. Böddeker
Parametric study of cost factors in RO desalination (GKSS plate system) 36(1981)75

H. Schmoldt, H. Strathmann and J. Kaschemekat
Desalination of sea water by an electrodialysis-reverse osmosis hybrid system 38(1981)567

J. Kaschemekat, W. Hilgendorff, K.W. Böddeker, A.M. Hassan and A.L.A. Malik
Two-stage reverse osmosis seawater desalination 46(1983)151

M.G.A. Khedr, A.H. Abd El-Wahab, J. Kaschemekat and J. Mohn
A field trial of reverse osmosis in the El Khanka Desert, Egypt 51(1984)173

Kashida K.

K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida
Light gauge welded titanium tubes for seawater desalination plants 73(1989)429

K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto
Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets 97(1994)147

Kasper S. P.

S.P. Kasper and N. Lior
A methodology for comparing water desalination to competitive fresh water transportation and treatment 30(1979)541

Kass J. R.

A.T. Bozzo, Hsiao-Sheng Chen, J.R. Kass and A.J. Barduhn
The properties of the hydrates of chlorine and carbon dioxide 16(1975)303

Kassir F.

D.R. Lee, J.M. Hargreaves, L. Badertscher, L. Rein and F. Kassir
Reverse osmosis and activated alumina water treatment plant for the California State prisons located near Blythe 103(1995)155

Kastelan-Kunst L.

L. Kastelan-Kunst, D. Sambrailo and B. Kunst
On the skinned cellulose triacetate membranes formation 83(1991)331

Katano N.

A. Wada, N. Katano and T. Goto
Prediction of the diffusion of discharged brine by a simulation analytical method 22(1977)91

Kataoka T.

H. Miyoshi, T. Fukumoto and T. Kataoka
A consideration on flow distribution in an ion exchange compartment with spacer 42(1982)47

H. Miyoshi, T. Fukumoto and T. Kataoka
An equation for estimating the diffusion coefficient of electrolytes in ion exchange membranes 48(1983)43

Kato H.

S. Toyama, T. Aragaki, T. Sato and H. Kato
Hold up and flow of liquid film at a horizontal tube bundle 45(1983)289

Kato J.

T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results 21(1977)11

Kato K.

K. Borashid and K. Kato
Rehabilitation of desalination plants at Sitra Power Station, Bahrain 73(1989)277

Kato M.

Y. Tsunoda and M. Kato
Compact apparatus for sea water desalination by electrodialysis using ion-exchange membranes 3(1967)66

Kato O.

T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi
RO applications in wastewater reclamation for re-use 23(1977)65

Katoh M.

O. Futamura, M. Katoh and K. Takeuchi
Organic waste water treatment by activated sludge process using integrated type membrane separation 98(1994)17

Katsifarakis K.L.

K.L. Katsifarakis
Solar distillation treatment of landfill leachate. A case study in Greece 94(1993)213

Katsura T.

K. Tasaka, T. Katsura, H. Iwahori and Y. Kamiyama
Analysis of RO elements operated at more than 80 plants in Japan 96(1994)259

Katz M. G.

M.G. Katz and G. Baruch
New insights into the structure of microporous membranes obtained using a new pore size evaluation method 58(1986)199

Katz T.

R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz
Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis 108(1996)247

R. Rautenbach and T. Katz
Survey of long time behavior and costs of industrial fluidized bed heat exchangers 108(1996)335

Katz U.

A. Solan, Y. Winograd and U. Katz
An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh 9(1971)89

Katz W.E.

W.E. Katz
The electrodialysis reversal (EDR) process 28(1979)31

W.E. Katz
Desalination by ED and EDR. State-of-the-art in 1981 42(1982)129

W.E. Katz
Drought-proofing in Southern California by seawater desalting is economic today 86(1992)1

Katzaras W.

M. Wethern and W.Katzaras
Reverse osmosis treatment of municipal sewage effluent for industrial reuse 102(1995)293

Kaur I.

I. Kaur and B.N. Misra
Gamma radiation induced graft copolymerization of acrylate monomers onto isotactic polypropylene 64(1987)271

I. Kaur, A. Gupta, B.N. Misra and G.S. Chauhan
Functionalization of polyethylene film by radiochemical grafting for use as membranes in seawater desalination 110(1997)115

I. Kaur, G.S. Chauhan, B.N. Misra and A. Gupta
Synthesis and characterization of grafted polyethylenes for use as membranes in water desalination 110(1997)129

Kava R. M.

V.J. Shah, R.M. Kava, A.V. Rao and M.M. Taqui Khan
A mobile reverse osmosis demonstration plant 69(1988)161

Kawabata M.

K. Urano, Y. Masaki and M. Kawabata
Electric resistance of ion-exchange membranes in dilute solutions 58(1986)171

Kawada I.

I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
New thin-film composite low pressure reverse osmosis membranes and spiral wound modules 64(1987)387

Kawaguchi T.

Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri
Evaluation of toxic substances in effluents from a wastewater treatment plant 106(1996)255

Kawahara T.

T. Kawahara, K. Asada and T. Ishida
The development of a new electrodialyzer for desalination 23(1977)213

S. Itoi, I. Nakamura and T. Kawahara
Electrodialytic recovery process of metal finishing waste water 32(1980)383

T. Kawahara and K. Suzuki
Utilization of the waste concentrated seawater in the desalination plants 38(1981)499

T. Kawahara
Construction and operation experience of a large-scale electrodialysis water desalination plant 96(1994)341

Kawakatsu T.

T. Kawakatsu, M. Nakajima, S. Nakao and S. Kimura
Three-dimensional simulation of random packing and pore blocking phenomena during microfiltration 101(1995)203

Kawamata F.

K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada
Electrodialysis plant at Hatsushima 21(1977)45

Kawamura K.

K. Kawamura, K. Nishimura and Y. Magara
Coliphage rejection under ultramembrane filtration 106(1996)89

Kawana S.

S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant 66(1987)339

Kawanishi T.

T. Kawanishi, S. Matsumoto, Y. Horii and M. Masuzaki
Desalination for landfill leachates containing condensed inorganic salts 97(1994)415

Kawate H.

T. Seto, H. Kawate and R. Komori
Development of ion exchange membrane technology 22(1977)495

Kawazoe K.

N. Shindo, Y. Otani, G. Inoue and K. Kawazoe
Water treatment by pitch-based activated carbon fiber 98(1994)155

Kayaalp N.M.

N.M. Kayaalp
Regulatory framework in South Australia and reclaimed water reuse options and possibilities 106(1996)317

Kaymakçalan Ö.

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Pilot plant study of desalination by direct contact heat transfer 13(1973)221

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Heat transfer to an immiscible liquid mixture and between liquids in direct contact 13(1973)231

Kaynia N.

M. Emami, G.H. Jalali Ghajar and N. Kaynia
State of desalination projects in Iran 23(1977)465

Kazuse Y.

I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
New thin-film composite low pressure reverse osmosis membranes and spiral wound modules 64(1987)387

Kedem A.

U. Rosenthal, J. Nechushtan, A. Kedem, D. Lancet and M.A. Frommer
An apparatus for studying the mechanism of membrane formation 9(1971)193

Kedem O.

G. Thau, R. Bloch and O. Kedem
Water transport in porous and non-porous membranes 1(1966)129-138, Err. 1(1966)296-

K.S. Spiegler and O. Kedem
Thermodynamics of hyperfiltration (reverse osmosis): criteria for efficient membranes 1(1966)311

J. Jagur-Grodzinski and O. Kedem
Transport coefficients and salt rejection in uncharged hyperfiltration membranes 1(1966)327

E. Hoffer and O. Kedem
Hyperfiltration in charged membranes: the fixed charge model 2(1967)25

E. Hoffer and O. Kedem
Negative rejection of acids and separation of ions by hyperfiltration 5(1968)167

M.A. Frommer, I. Feiner, O. Kedem and R. Bloch
The mechanism for formation of "skinned" membranes. II. Equilibrium properties and osmotic flows determining membrane structure 7(1970)393

G. Michaeli and O. Kedem
Tracer diffusion coefficients in water-tri-n -butylphosphate solutions 8(1970)359

R. Simons and O. Kedem
Hyperfiltration in porous fixed charge membranes 13(1973)1

O. Kedem
Reduction of polarization in electrodialysis by ion-conducting spacers 16(1975)105, Err. 17(1975)143

O. Kedem and Y. Maoz
Ion conducting spacer for improved electrodialysis 19(1976)465

R. Messalem, C. Forgacs and O. Kedem
New developments in polyethylene-based membranes 24(1978)93

O. Kedem, G. Tanny and Y. Maoz
A simple electrodialysis stack 24(1978)313

O. Kedem, I. Rubinstein and L.A. Segel
Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system 27(1978)143

O. Kedem and I. Rubinstein
Polarization effects at charged membranes 46(1983)185

O. Kedem, J. Cohen, A. Warshawsky and N. Kahana
EDS: sealed cell electrodialysis 46(1983)291

I. Rubinstein, A. Warshawsky, L. Schechtman and O. Kedem
Elimination of acid-base generation ('water-splitting') in electrodialysis 51(1984)55

I. Rubinstein, E. Staude and O. Kedem
Role of the membrane surface in concentration polarization at ion-exchange membrane 69(1988)101

Keefer B. G.

B.G. Keefer, R.D. Hembree and F.C. Schrack
Optimized matching of solar photovoltaic power with reverse osmosis desalination 54(1985)89

Keilin B.

H. Strathmann and B. Keilin
Control of concentration polarization in reverse osmosis desalination of water 6(1969)179

Kelkar U. G.

J.C. Vickers, M.A. Thompson and U.G. Kelkar
The use of membrane filtration in conjunction with coagulation processes for improved NOM removal 102(1995)57

M.A. Thompson, U.G. Kelkar and J.C. Vickers
The treatment of groundwater containing hydrogen sulfide using microfiltration 102(1995)287

Keller L.

K. Volchek, L. Keller, D. Velicogna and H. Whittaker
Selective removal of metal ions from ground water by polymeric binding and microfiltration 89(1993)247

Keller R. M.

W.L. Griffith, R.M. Keller and K.A.Kraus
Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes 4(1968)283-308, Err. 11(1972)129

W.L. Griffith, R.M. Keller and K.A.Kraus
Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes 4(1968)283-308, Err. 11(1972)129

D.G. Thomas, W.L. Griffith and R.M. Keller
The role of turbulence promoters in hyperfiltration plant optimizatlon 9(1971)33

W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr.
Effect of brine disposal cost on hyperfiltration plant optimization 11(1972)91

Kelley E. V.

E.V. Kelley
Distributed control systems for desalination 39(1981)3

Kemeny L. G.

L.G. Kemeny
Desalination in Australia: Operational experience and future prospects 18(1976)321

Kemp N.H.

N.H. Kemp
Analytical solution of a sink model of a two dimensional counterwasher 12(1973)127

Kenarangui R.

R. Kenarangui, A. Husseiny and Z. Sabri
A comprehensive formal approach to the evaluation of bids for desalination plants using verbal judgment 33(1980)311

Kepinski J.

Kerr C. A.

A.E. Simpson, C.A. Kerr and C.A. Buckley
The effect of pH on the nanofiltration of the carbonate system in solution 64(1987)305

C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen
The use of speciation and X-ray techniques for determining pretreatment steps for desalination 66(1987)327

C.A. Buckley, A.E. Simpson, C.A. Kerr and C.F. Schutte
The treatment and disposal of waste brine solutions 67(1987)431

A. Bindoff, C.J. Davies, C.A. Kerr and C.A. Buckley
The nanofiltration and reuse of effluent from the caustic extraction stage of wood pulping 67(1987)455

Kerres J.

H. Strathmann, C.-M. Bell and J. Kerres
Gas separation and pervaporation: Membrane and module development 77(1990)259

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Kertész D.

D. Kertész, F. de Körösy and E. Zeigerson
Advances in the electrochemistry of permselective membranes 2(1967)161

Kesou A.

A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control 92(1993)43

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

Kessler H. G.

H.D. Obermeyer, U. Kulozik and H.G. Kessler
Controlled deposit formation to influence the retention of solutes in reverse osmosis and ultrafiltration 90(1993)161

C. Schwab, U. Kulozik and H.G. Kessler
Effect of structure controlled deposited layers on the retention of flavour compounds in reverse osmosis 90(1993)173

Kessler J. O.

C.D. Moody and J.O. Kessler
Forward osmosis extractors 18(1976)283

J.O. Kessler and C.D. Moody
Drinking water from sea water by forward osmosis 18(1976)297

Kesting R. E.

R.E. Kesting, J.M. Newman, K.T. Nam and J.F. Ditter
Dry-RO membranes from blends of ionogenic and nonionogenic polymers 46(1983)343

Khalaf S.

S. Khalaf, M. Alarrayedh and A.M. Alawadi
Operational experience of 2 x 11,500 m3d MSF seawater desalination plant 39(1981)219

K. Genthner, S. Khalaf, W. Ruehle and A. Seifert
The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers 65(1987)171

M.A.K. Al-Sofi, S. Khalaf and A. Al-Omran
Practical experience in scale control 73(1989)313

S. Khalaf and A. Al Alawi
Maintenance philosophy and approach for a dual purpose plant 96(1994)273

Khalifa T. A.

H.T. El-Dessouky and T.A. Khalifa
Scale formation and its effect on the performance of once through MSF plant 55(1985)199

Khalil A.

A. Khalil
Dehumidification of atmospheric air as a potential source of fresh water in the UAE 93(1993)587

Khalil E. E.

M.F. El-Fouly and E.E. Khalil
The water problem in Egypt 30(1979)205

E.E. Khalil, M.M. Hilal, M.F. El-Fouly and H.Z. El-Mogy
Heat transfer and fluid flow characteristics in flash desalination units 39(1981)283

E.E. Khalil, A.H. Mariy and M. Marwan
Potable water technology transfer and assessment in Egypt 64(1987)217

Khamis Fareigh D. M.

D.M. Khamis Fareigh and S. Arazzini
Description and mathematical model of a large MSF desalination plant in SCADA configuration 55(1985)91

Khan A.R.

P.J. Schroeder, A.S. Chan and A.R. Khan
Freezing processes — the standard of the future 21(1977)125

I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan
Saudi Arabian-U.S. joint agreement for technical cooperation in desalination 30(1979)247

S.A. Al-Saleh and A.R. Khan
Evaluation of Belgard EV 2000 as antiscalant control additive in MSF plants 97(1994)87

S.A. Al-Saleh and A.R. Khan
Comparative study of two anti-scale agents Belgard EVN and Belgard EV 2000 in multi-stage flash distillation plants in Kuwait 97(1994)97

Khan H. U.

T. Husain, H.U. Khan and S.M. Khan
Evaluation of water resources alternatives in Saudi Arabia in multi-objective framework 81(1991)77

Khan M. M. A.

A.J. Al-Saati and M.M.A. Khan
Design, operation and maintenance problems of small reverse osmosis treatment plants in Riyadh region, Saudi Arabia 82(1991)141

Khan M. S.

A.M. El-Nashar and M.S. Khan
Economic scheduling of the UAN cogeneration plant: A preliminary optimization study 85(1991)93

Khan Salahuddin

B.A. Kamaluddin, S. Khan and B. Makkawi-Ahmed
Selection of optimally matched cogeneration plants 93(1993)311

Khan Suhail M.

T. Husain, H.U. Khan and S.M. Khan
Evaluation of water resources alternatives in Saudi Arabia in multi-objective framework 81(1991)77

Khan W.Z.

W.Z. Khan and E.Z. Hamad
Performance of an aromatic polyamide hollow fiber membrane subjected to high salinity water 105(1996)191

Khararjian H. A.

H.A. Khararjian, R.H. Siddiqi and S. Farooq
Chemical treatment for reuse of wastewater effluents in Saudi Arabia 38(1981)437

B. Tawabini, H. Khararjian and N. Fayad
Trihalomethanes (THMs) formation in a distillation process 66(1987)403

Kharbanda O. P.

O.P. Kharbanda
Desalination in the year 2000 — Technoeconomic aspects 67(1987)579

Kharchuck V. A.

V.N. Smagin, V.A. Chukhin and V.A. Kharchuck
Technological account of electrodialysis apparatus for concentration 46(1983)283

Khater A.

A. Khater, S. Dannish and M. Al-Ansari
Privatization as a financing alternative for desalination plants in Bahrain 97(1994)281

Khaw L. F.

G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath
Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions 36(1981)87

Khawaji A.D.

A.D. Khawaji and Jongmihn Wie
Potabilization of desalinated water at Madinat Yanbu Al-Sinaiyah 98(1994)135

Khedr M. G. A.

M.G.A. Khedr, A.H. Abd El-Wahab, J. Kaschemekat and J. Mohn
A field trial of reverse osmosis in the El Khanka Desert, Egypt 51(1984)173

M.G.A. Khedr, M.M.H. Badran and A.A. El Azhari
Pitting corrosion behaviour of aluminium in water desalination plants 72(1989)351

Khomenko A. G.

S.N. Filippov, A.G. Khomenko and U.L. Zmeev
Start-up of a thermocompression desalting plant without using external heat 4(1968)30

Khordagui H.

W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed
Electrochemical generation of ozone for water treatment using a cell operating under natural convection 99(1994)149

Khorfan S.

S. Khorfan
The influence of pollution on desalination 93(1993)443

Khow J.

A.J. Rachwal, J. Khow, J.S. Colbourne and J. O'Donnell
Water treatment for public supply in the 1990's — A role for membrane technology? 97(1994)427

Khumayyis D. S.

D.S. Khumayyis and M. Ohtani
Construction and commissioning of 6 x 23,000 t/d MSF plant, Al Jobail Phase 1 45(1983)155

N. Nada, D. Khumayyis and M. Al-Hussain
Economical evaluation of Alkhobar Phase Two 50 MIGPD at three different mode of operation 55(1985)43

Kiang K. D.

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part I. Process analysis 4(1968)336

L.T. Fan, C.Y. Cheng, C.L. Hwang, L.E. Erickson and K.D. Kiang
Analysis and optimization of a multieffect multistage flash distillation system. Part II. Optimization 4(1968)361

Kibe Y.

J. Sakuma, T. Takagi, S. Yamada and Y. Kibe
Influence of scale prevention on corrosion of heat-transfer tube 14(1974)189

Kido S.

S. Kido and T. Shinohara
Corrosion under heat flux encountered in desalination plant 22(1977)369

S. Kido
Operation of MEFF (multiple effect falling film process) desalination plant 41(1982)127

Kiefer C. A.

W.J. Conlon, C.D. Hornburg, B.M. Watson and C.A. Kiefer
Membrane softening: The concept and its application to municipal water supply 78(1990)157

Kiehling B.

W. Höll and B. Kiehling
Partial demineralization by ion exchange using carbon dioxide as regenerant. Part I: Evaluation of the regeneration of weak acid ion exchange resins in the presence of anion exchanger material 48(1983)253

Kihara H.

M. Arika, H. Kobayashi and H. Kihara
Pilot plant test of an activated sludge ultrafiltration combined process for domestic wastewater reclamation 23(1977)77

Kijima J.

J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi
Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia 22(1977)299

Kikkert A.

S. Bruin, A. Kikkert, J.A.G. Weldring and J. Hiddink
Overview of concentration polarization in ultrafiltration 35(1980)223

Kikuchi K.

Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama
Desalination of high salinity sea water by reverse osmosis (Summary) 46(1983)145

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
Experiments on seawater desalination by membrane distillation 69(1988)19

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

Kikuchi S.

M. Takada, S. Kikuchi and J. Gaydos
Reheat type distilling plant 20(1977)385

Kikuchi T.

S. Ishizaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna
Technical aspects of desalination in Japan - present and future 5 suppl.(1969)63

Kim I. H.

In Ho Kim, In Soek Kang and Ho Nam Chang
Mass transfer in the U-turn of an electrodialyzer 33(1980)139

Kim K. J.

A.G. Fane, C.J.D. Fell and K.J. Kim
The effect of surfactant pretreatment. on the ultrafiltration of proteins 53(1985)37

K.J. Kim, A.G. Fane and C.J.D. Fell
The performance of ultrafiltration membranes pretreated by polymers 70(1988)229

Kim M.

J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
Nanofiltration membranes broaden the use of membrane separation technology 70(1988)77

Kimes J. K.

J.K. Kimes
The regulation of concentrate disposal in Florida 102(1995)87

Kimmerlie K.

K. Kimmerlie and H. Strathmann
Analysis of the structure-determining process of phase inversion membranes 79(1990)283

Kimrey J. O.

J.O. Kimrey
Artificial recharge of groundwater and its role in water management 72(1989)135

Kimura S.

S. Kimura and S.-I. Nakao
Fouling of cellulose acetate tubular reverse osmosis modules treating the industrial water in Tokyo 17(1975)267

S. Kimura, T. Nomura and G. Ikeda
Desalination by the newly developed reverse osmosis module 22(1977)263

T. Nomura and S. Kimura
Properties of dynamically formed membranes 32(1980)57

S. Kimura and T. Nomura
Purification of high temperature water by the reverse osmosis process 38(1981)373

S. Kimura and I. Jitsuhara
Transport through charged ultrafiltration membranes 46(1983)407

S. Kimura
Research and development of membrane technologies and their applications in Japan 53(1985)279

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

D.P. Logan and S. Kimura
Control of gypsum scale on reverse osmosis membranes 54(1985)321

S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
Separation of proteins by charged ultrafiltration membranes 70(1988)191

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Membrane distillation with fluoro-carbon membranes 81(1991)107

Kikuchi

T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura
Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures 81(1991)219

S. Toyama, K. Murase, S. Kimura and M. Nakamura
Surface evaporation in liquid flowing down an inclined groove 82(1991)387

S. Kimura
Analysis of reverse osmosis membrane behaviors in a long-term verification test 100(1995)77

T. Kawakatsu, M. Nakajima, S. Nakao and S. Kimura
Three-dimensional simulation of random packing and pore blocking phenomena during microfiltration 101(1995)203

Kimuro H.

M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka
Small-scale sewage plant experiment by pretreatment and methanization of suspended solid 98(1994)217

King C. J.

H.L. Fong, C.J. King and H.H. Sephton
Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant 16(1975)15

E. Valdes-Krieg, C.J. King and H.H. Sephton
Removal of surfactants and particulate matter from sea water desalination blowdown brines by foam fractionation 16(1975)39

King W. M.

C.W. Saltonstall, Jr., W.M. King and D.L. Hoernschemeyer
A new method for measuring diffusion coefficients of electrolytes in nonionic membranes 4(1968)309

Kinjo N.

N. Kinjo and M. Sato
Movements of univalent ions in cellulose acetate membranes 27(1978)71

Kinlin T.

T. Kinlin
Some thoughts on distillation processes 30(1979)75

Kinzer K. E.

K.E. Kinzer, D.R. Lloyd, J.P. Wightman and J.E. McGrath
Asymmetric membrane preparation from nonsolvent casting systems 46(1983)327

Kiørboe L.

L. Kiørboe, C.E. Boesen and G. Jonsson
A method for the determination of the optimal reverse osmosis membrane for two-solute separation 12(1973)35

Kipps J. A. L.

D.W.J. Hayes and J.A.L. Kipps
Salt-gradient solar ponds from concentrated subsurface agricultural drainage waters of the San Joaquin Valley, California 88(1992)301

Kiranoudis C.T.

C.T. Kiranoudis, N.G. Voros and Z.B. Maroulis
Wind energy exploitation for reverse osmosis desalination plants 109(1997)195

Kirch R.

W. Höll and R. Kirch
Regeneration of weak base ion exchange resins 26(1978)153

Kircher J. F.

A.E. Austin, J.F. Miller, N.A. Richard and J.F. Kircher
Precipitation of calcium sulfate from sea water at high temperatures 16(1975)331

A.E. Austin, J.F. Miller, D.A. Vaughan and J.F. Kircher
Chemical additives for calcium sulfate scale control 16(1975)345

Kirchner O. E.

O.E. Kirchner
Vapor compression evaporation for inland desalting 22(1977)31

O.E. Kirchner
Techniques for achieving high recovery from saturated water sources using reverse osmosis membranes 32(1980)223

Kiriyama K.

K. Kiriyama, Y. Tanaka and I. Mori
Field test on a methane fermentation treatment system incorporating a membrane module for municipal sewage 98(1994)199

Kirk A.

G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson
Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse 47(1983)305

Kirkpatrick W. R.

B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
Health and safety aspects of irrigation of raw eaten food crops with reused water 39(1981)491

Kishi M.

M. Kishi, S. Serizawa and M. Nakano
New electrodialyser system with automatic chemical cleaning 23(1977)203

M. Kishi, K. Matsumoto, Y. Takeuchi and K. Hattori
Development of flow model for weir type orifice 55(1985)481

M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori
Development of flashing flow model for box type orifice 65(1987)57

M. Kishi, K. Hattori, M. Tatsumoto and S. Koyama
Development of training simulator for MSFE desalination plant 66(1987)75

Kishino H.

H. Kishino, H. Ishida, H. Iwabu and I. Nakano
Domestic wastewater reuse using a submerged membrane bioreactor 106(1996)115

Kitamoto A.

A. Kitamoto and Y. Takashima
Transfer rates in electrodialysis with ion exchange membranes 9(1971)51

Kitao T.

S. Iwai, T. Kitao, H. Ohmori and K. Inujima
Reuse of drainage from an office building 23(1977)171-181, Err. 25(1978)215

Kitaoka K.

K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida
Light gauge welded titanium tubes for seawater desalination plants 73(1989)429

Kiyozuka M.

E. Shirahama and M. Kiyozuka
Golf course construction plans and water quality preservation 98(1994)505

Kjellander N.

S.-I. Andersson, N. Kjellander and B. Rodesjö
Design and field tests of a new membrane distillation desalination process 56(1985)345

N. Kjellander
Design and field tests of a membrane distillation system for seawater desalination 61(1987)237

Klaassen R.

I.G. Rácz, J. Groot Wassink and R. Klaassen
Mass transfer, fluid flow and membrane properties in flat and corrugated plate hyperfiltration modules 60(1986)213

Klaren D. G.

D.G. Klaren and N. Halberg
The standard module philosophy for multi stage flash/fluidized bed evaporation: a new approach in desalination 31(1979)233

Klaschka J.T.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

Klausutis N. A.

W.W. Carey, N.A. Klausutis and A.J. Barduhn
Solubility of four gas hydrate formers in water and aqueous sodium chloride solutions 1(1966)342

Klein E.

J.C. Watters, E. Klein, M. Fleischman, J.S. Roberts and B. Hall
Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack 60(1986)93

Klein. G.

G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen
Calcium removal from sea water by fixed-bed ion exchange 4(1968)158

H.H. Sephton and G. Klein
A method of using irrigation drainage water for power plant cooling 19(1976)257-268, Err 21(1977)234

T. Vermeulen, B.W. Tleimat and G. Klein
Ion-exchange pretreatment for scale prevention in desalting systems 47(1983)149

P. Shain, G. Klein and T. Vermeulen
A mathematical model of the cyclic operation of desalination- feedwater softening by ion-exchange with fluidized-bed regeneration 69(1988)135

Klein W.

K. Schneider and W. Klein
The concentration of suspensions by means of crossflow-microfiltration 41(1982)263

Klein-Banay C.

A. Adin and C. Klein-Banay
Pretreatment of seawater by flocculation and settling for particulates removal 58(1986)227

Klinge H.

H. Bender, M. Hobler, H. Klinge and K. Schelkes
Investigations of groundwater resources in Central Jordan 72(1989)161

Klinko K. A.

K.A. Klinko, W.G. Light and C.M. Cummings
Factors influencing optimum seawater reverse osmosis system designs 54(1985)3

M. Wilf and K. Klinko
Performance of commercial seawater membranes 96(1994)465

Kloosterboer D.

J. Hiddink, D. Kloosterboer and S. Bruin
Evaluation of static mixers as convection promoters in the ultrafiltration of dairy liquids 35(1980)149

Kluesener J. W.

D. Blackson, B.W. Reyes, J.W. Kluesener and E.H. Houle
Water reclamation for power plant cooling 56(1985)175

Klyachko V. A.

V.A. Klyachko and L.D. Ushakov
Hydraulic principles for the design of electrodialysis desalination plants 2(1967)279

Klyikov D. M.

V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov
Floating nuclear desalination plant AFWS-40 89(1992)21

Kneifel K.

K. Hattenbach and K. Kneifel
Determination of transport properties and limiting current densities of ion exchange membrane stacks 21(1977)317

K. Kneifel and K. Hattenbach
Properties and long-term behavior of ion exchange membranes 34(1980)77

K. Hattenbach and K. Kneifel
The effect of cell thickness and flow velocity on water cost in desalination by electrodialysis 58(1986)33

K. Kneifel, G. Lührs and H. Wagner
Nitrate removal by electrodialysis for brewing water 68(1988)203

Knezic L.

M. Mitrovic and L. Knezic
Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics 28(1979)147

Knight R. A.

L.H. Shaffer, R.A. Knight and D.A. Smith
Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium 2(1967)125

Knighton R.

R. Knighton
Development of a marine osmotic solar still for sea water desalination 39(1981)173

Knudsen H.H.

H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen
Reclamation and reuse of process water from reactive dyeing of cotton 106(1996)195

Kobayashi H.

M. Arika, H. Kobayashi and H. Kihara
Pilot plant test of an activated sludge ultrafiltration combined process for domestic wastewater reclamation 23(1977)77

Kobayashi S.

K. Sato, S. Kobayashi and S. Okado
Desalination and reuse of industrial wastewater by electrodialysis 47(1983)363

K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
Development and application of a roof type solar still 73(1989)111

Kobus E.J.M.

E.J.M. Kobus and P.M. Heertjes
The poisoning of anion-selective membranes by sodium dodecylsulphate 10(1972)383

E.J.M. Kobus and P.M. Heertjes
The poisoning for anion-selective membranes by humic substances 12(1973)333

Kock K.

H. Strathmann, K. Kock, P. Amar and R.W. Baker
The formation mechanism of asymmetric membranes 16(1975)179

H. Strathmann and K. Kock
The formation mechanism of phase inversion membranes 21(1977)241

E. Korngold, K. Kock and H. Strathmann
Electrodialysis in advanced waste water treatment 24(1978)129

Koenhen D. M.

L. Broens, D.M. Koenhen and C.A. Smolders
On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes 22(1977)205

L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
Asymmetric membrane structures as a result of phase separation phenomena 32(1980)33

Koenigsbuch M.

A. Cohen, M. Zangen, M. Koenigsbuch and J.M.E. Goldschmidt
Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater 41(1982)215

Kofod Nielsen see Nielsen W.

R.F. Madsen and W.K. Nielsen
Ultrafiltration of bleach effluents as an example of waste-water treatment by ultrafjltration 24(1978)141

Koga S.

S. Koga and K. Ushikoshi
Alclose reverse osmosis system 23(1977)105

Kogan A.

A. Kogan and M. Victor
On some aspects of flash distillation without metallic interfaces 4(1968)80

A. Kogan
Direct contact condensation multistage flash distillation 19(1976)299

Kohl M.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Kohli H.

H. Kohli, D. Emmermann, R. Kadaj and H. Said
Hybrid desalting technology maximizes recovery 56(1985)61

Kohsaka K.

K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida
Light gauge welded titanium tubes for seawater desalination plants 73(1989)429

Koide H.

T. Oe, H. Koide, H. Hirokawa and K. Okukawa
Performance of membrane filtration system used for water treatment 106(1996)107

Koifman L.

L. Koifman
Geothermal resources in Israel 40(1982)133

Koike Y.

O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike
Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale 22(1977)515

Y. Murai, T. Yamadera and Y. Koike
An experience on re-use of waste water discharged from metal plating shop 23(1977)97

Y. Koike, T. Yamadera and S. Tsukahara
Some experiences on waste water re-use for automobile works 23(1977)141

Kojima Y.

Y. Kojima and M. Tatsumi
Operation of reverse osmosis process for industrial waste water reclamation 23(1977)87

Kolbach J. St.

R. Rautenbach, C. Erdmann and J.S. Kolbach
The fluidized bed technique in the evaporation of wastewaters with severe fouling/scaling potential - Latest developments, applications, limitations 81(1991)285

Kolbe H.

F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh
The barium sulfate seeding process 21(1977)59

Koldajeva I.L.

L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev
Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold 105(1996)159

Koltuniewicz A.B.

A.B. Koltuniewicz and R.W. Field
Process factors during removal of oil-in-water emulsions with cross-flow microfiltration 105(1996)79

Kominek O.

V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright
Concentration polarization and water splitting at electrodialysis membranes 91(1993)225

Komori R.

T. Seto, H. Kawate and R. Komori
Development of ion exchange membrane technology 22(1977)495

T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa
Seawater desalination by electrodialysis 25(1978)1

Kondo M.

Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
Remineralization of desalinated water by limestone dissolution filter 66(1987)365

M. Kondo and H. Sato
Treatment of wastewater from phenolic resin process by pervaporation 98(1994)147

Kong Y.

Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu
An experimental study on membrane distillation-crystallization for treating waste water in taurine production 80(1991)235

Konieczny K.

K. Konieczny and M. Bodzek
Ultrafiltration of demineralized water containing colloidal silica 79(1990)145

M. Bodzek and K. Konieczny
Polyacrylonitrile and polyvinyl chloride ultrafiltration membranes in the treatment of anaphoretic emulsion paint 80(1991)43

M. Bodzek and K. Konieczny
Characterization of gel layer formed during ultrafiltration of latex emulsion waste waters 94(1993)81

M. Bodzek and K. Konieczny
Modelling of the ultrafiltration of electrophoretic emulsion paint 94(1994)261

M. Bodzek and K. Konieczny
Optimization of the ultrafiltration of latex wastewaters 94(1994)289

K. Konieczny and M. Bodzek
Ultrafiltration of latex wastewaters 104(1996)75

M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny
Biomembrane wastewater treatment by activated sludge method 107(1996)83

Koning J.

M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay
Use of fluidised beds as turbulence promotors in tubular membrane systems 22(1977)465

Konkin W.W.

F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova
New solutions for construction of pressure-driven membrane equipment 108(1996)315

Konstantin M.

M. Wilf, M. Konstantin and A. Chencinsky
Evaluation of an ion-exchange system regenerated with seawater for the increase of product recovery of reverse osmosis brackish water plant 34(1980)189

Konstantinova E. V.

E.V. Konstantinova and L.S. Semenova
Corrosion of mild steel under operating conditions of a distillation desalting plant 5(1968)90

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Kontturi K.

K. Kontturi and M. Vuoristo
Adsorption of globular proteins on polymeric microfiltration membranes 104(1996)99

Kooistra W.

W. Kooistra
Characterization of ion-exchange membranes by polarization curves 2(1967)139

Koot L. W.

L.W. Koot
Energy losses in a flash evaporator 5(1968)331

Kopko S.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Kopp C.

A. Vaid, C. Kopp, W. Johnson and A.G. Fane
Integrated waste water treatment by coupled bioreactor and membrane system 83(1991)137

Kopp W.

R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes
Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs 65(1987)241

R. Rautenbach, W. Kopp and C. Herion
Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes 72(1989)339

Kops J.

J. Adduci, L.L. Chapoy, G. Jonsson, J. Kops and B.M. Shinde
Semi-stiff chain aromatic polyamic-acids: new candidates for reverse osmosis membranes 46(1983)349

Koptev V.S.

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov and V.S. Koptev
Treatment of natural water by membranes 105(1996)33

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov
Production of quality drinking water with membranes 108(1996)167

Koren A.

A. Koren and N. Nadav
Mechanical vapour compression to treat oil field produced water 98(1994)41

Korin E.

E. Korngold and E. Korin
Air sweep water pervaporation with hollow fiber membranes 91(1993)187

E. Korngold, E. Korin and I. Ladizhensky
Water desalination by pervaporation with hollow fiber membranes 107(1996)121

Korneichev A. I.

A.I. Kornejitschev and A.W. Isvekov
Technical and economic analysis of several circuit diagrams of multi-stage flash distillation plants (in German) 5(1968)17

A.I. Korneichev, A.V. Izvekov and A.A. Myagkov
Optimization of basic parameters of thermal desalting plants with adiabatic evaporation 7(1970)179

Korngold E.

E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch
Fouling of anion-selective membranes in electrodialysis 8(1970)195

E. Korngold
Prevention of colloidal-fouling in electrodialysis by chlorination 9(1971)213

E. Korngold and F. de Körösy
Experimental reverse osmosis apparatus for membranes in the external surface of ceramic tubes 11(1972)125

E. Korngold
Anionic membranes of low permselectivity in pilot plant operation 14(1974)359

E. Korngold
Electrodialysis processes using ion-exchange resins between membranes 16(1975)225

E. Korngold, K. Kock and H. Strathmann
Electrodialysis in advanced waste water treatment 24(1978)129

Y. Egozy, E. Korngold and N.C. Daltrophe
Waste water recycling by ion-exchange: I. Complete desalination 33(1980)123

Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun
Waste water recycling by ion-exchange: II. Partial desalination 33(1980)333

E. Korngold
Electrodialysis unit: Optimization and calculation of energy requirements 40(1982)171

Y. Egozy and E. Korngold
Effect of the energy crisis on water desalination and waste water recycling by ion exchange 40(1982)181

E. Korngold and D. Vofsi
Water desalination by ion-exchange hollow fibers 84(1991)123

E. Korngold and E. Korin
Air sweep water pervaporation with hollow fiber membranes 91(1993)187

E. Korngold
Iron removal from tap water by a cation exchanger 94(1994)243

E. Korngold, S. Belfer and C. Urtizberea
Removal of heavy metals from tap water by a cation exchanger 104(1996)197

E. Korngold, E. Korin and I. Ladizhensky
Water desalination by pervaporation with hollow fiber membranes 107(1996)121

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Korosi A.

B.M. Fabuss and A. Korosi
Vapor pressures of binary aqueous solutions of NaCI, KCI, Na2SO4 and MgSO4 at concentrations and temperatures of interest in desalination processes 1(1966)139

B.M. Fabuss and A. Korosi
Vapor pressures of ternary aqueous solutions of NaCI, KCI, Na2SO4 and MgSO4 at concentrations and temperatures of interest in desalination processes 1(1966)149

B.M. Fabuss and A. Korosi
Thermodynamic properties of sea water and its concentrates 2(1967)271

Korte F.

F. Korte
Ecotoxicology of Belgard EV®
30(1979)411

Koryakin Y. I.

Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski
Analysis of the technical and economic data of multi-purpose nuclear plants (in German) 5(1968)201

Y.I. Koryakin, A.A. Loginov and V.A. Chernyaev
Methodological aspects of technico-economic parameters of nuclear desalination plants 7(1970)323

Kosaka K.

K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby
Development of new type thermally regenerable ion exchange plant
22(1977)505

Kosenko R.Yu.

A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov
Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes 104(1996)113

Koshitani J.

T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani
Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane
22(1977)253

Koslowsky L.

C. Forgacs, L. Koslowsky and J. Rabinowitz
The desalination of sea water by high temperature electrodialysis 5(1968)349

Kost J.

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Kostense A.

J.C. Schippers, J.H. Hanemaayer, C.A. Smolders and A. Kostense
Predicting flux decline of reverse osmosis membranes 38(1981)339

Kostikow L.E.

L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow
Use of nuclear plants in the desalination of sea water (in German) 4(1968)103

Kotake S.

M.F. Al-Ghamdi, C.H. Hughes and S. Kotake
The Makkah-Taif MSF desalination plant
66(1987)3

Koter S.

A. Narebska, S. Koter and W. Kujawski
Ions and water transport across charged Nafion membranes. Irreversible thermodynamics approach 51(1984)3

S. Koter
Analysis of an electrodialysis unit on the basis of irreversible thermodynamics
95(1994)139

Kottke V.

C.C. Zimmerer and V. Kottke
Effects of spacer geometry on pressure drop, mass transfer, mixing behavior, and residence time distribution 104(1996)129

Kourie J.I.

J.I. Kourie
Significance of potassium and chloride membrane currents in mechanisms of salt tolerance in Chara corallina and Chara inflata 106(1996)431

J.I. Kourie
Voltage and pharmacological modification of membrane currents during the action potential in Chara inflata 106(1996)435

Koushiro H.

H. Koushiro and Y. Kubo
The use of hollow fiber filters to improve condensate purification efficiency in thermal power plants 98(1994)361

Koutsoukos P. G.

E. Dalas and P.G. Koutsoukos
Calcium carbonate scale formation and prevention in a flow-through system at various temperatures 78(1990)403

Koyama S.

M. Kishi, K. Hattori, M. Tatsumoto and S. Koyama
Development of training simulator for MSFE desalination plant 66(1987)75

Kozhevnikov I.V.

S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov
Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis 104(1996)107

Kozlov V. A.

O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
Evaluation of thermal desalination plants water chemistry 47(1983)63

Kraetz L.

L. Kraetz
Dehydration of alcohol fuels by pervaporation 70(1988)481

Kramer B.

J.C. van Dijk, B.R. Munneke, B. Kramer and J.W. Wouters
Membrane filtration: A realistic option in the field of water supply? 81(1991)229

Kranebitter F.

F. Kranebitter
The role of energy and economics in water conversion 30(1979)501

Kraus K. A.

R.J. Raridon, L. Dresner and K.A. Kraus
Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method 1(1966)210

K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor
Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (I) 1(1966)225

K.A. Kraus, A.J. Shor and J.S. Johnson, Jr.
Hyperfiltration studies. X. Hyperfiltration with dynamically-formed membranes
2(1967)243

W.L. Griffith, R.M. Keller and K.A.Kraus
Hyperfiltration studies XIII. Parametric study of hyperfiltration in tubular systems with high permeability membranes
4(1968)283-308, Err. 11(1972)129

J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona
Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes
5(1968)359

J.J. Perona, T.W. Pickel and K.A. Kraus
Hyperfiltration studies XVIII. The optimization of two-stage plants for desalination of brackish waters 8(1970)73

Kraus M. A.

A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer
A miniature reverse osmosis/ultrafiltration system 24(1978)305

Krause H.

H. Krause and A. Hassan
Improvement of operation and availability of MSF plants 107(1996)59

Krauth Kh.

K. Krauth and K.F. Staab
Substitution of the final clarifier by membrane filtration within the activated sludge process with increased pressure. Initial findings 68(1988)179

Kravath R. E.

R.E. Kravath and J.A. Davis
Desalination of sea water by direct osmosis 16(1975)151

Krebs F.

F. Krebs
A water and power installation for Lanzarote, Canary Islands, Spain 20(1977)173

Kremen S.

S.S. Kremen
Means by which reverse osmosis desalting costs can be substantially reduced well before the year 2000 30(1979)59

R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen
Parametric study on seawater reverse osmosis desalting plants 46(1983)3

P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf
Desalination of high salinity brackish water. Low pressure reverse osmosis 58(1986)55

S. Kremen, M. Wilf and P. Lange
Operating results and economics of single stage and two stage large size sea water RO systems 82(1991)15

Kremen S.S.

S.S. Kremen, C. Hayes and M. Dubos
Large-scale reverse osmosis processing of metal finishing rinse waters 20(1977)71

Kreshman S. A.

S.A. Kreshman
Seawater intakes for desalination plants in Libya 55(1985)493

Kreuzer A.

A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant 44(1983)17

Kriesi R.

R. Kriesi
Design and operation experience with solar powered multistage desalination plants 39(1981)109

R. Kriesi and M. Posnansky
Operation experience with solar powered 10 m3 per day MSF-plant in Kuwait and results of upscaling experiments 45(1983)371

Krishnaswamy N.

B.D. Dasare, W.P. Harkare, V.K. Indusekhar and N. Krishnaswamy
Demineralization with ion-exchange materials 3(1967)183

V.K. Indusekhar and N. Krishnaswamy
Polarization studies on interpolymer ion exchange membranes 48(1983)267

V.K. Indusekhar and N. Krishnaswamy
Water transport studies on interpolymer ion-exchange membranes 52(1985)309

Kristensen G.H.

H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen
Reclamation and reuse of process water from reactive dyeing of cotton 106(1996)195

Kristensen S.

G. Jonsson and S. Kristensen
Membrane filtration of NSSC-waste liquor 32(1980)327

W.K. Nielsen and S. Kristensen
The application of thin film composite membranes in plate-and-frame systems for water purification 38(1981)383

W.K. Nielsen and S. Kristensen
The prospects of water removal by hyperfiltration using thin film composite membranes 41(1982)277

Krivandin A.V.

A.L. Iordanskii, L.P. Razumovskii, A.V. Krivandin and T.L. Lebedeva
Diffusion and sorption of water in moderately hydrophilic polymers: From segmented polyetherurethanes to poly-3-hydroxybutyrate 104(1996)27

Kronberger H.

H. Kronberger
The United Kingdom approach to desalination and nuclear power 5 suppl.(1969)17

H. Kronberger
United Kingdom desalination research and development program 5 suppl.(1969)33

H. Kronberger
Some features required of nuclear reactors for dual-purpose water/power production 5 suppl.(1969)341

Kronenberg G.

G. Kronenberg
Cogeneration with the LT-MED desalination process 108(1996)287

Kroner K. H.

B. Reismeier, K.H. Kroner and M.-R. Kula
Harvest of microbial suspensions by microfiltration 77(1990)219

Kronmiller D.L.

D.L. Kronmiller
What every reverse osmosis water system manager should know 98(1994)401

Krous E. S.

J.T. Maletic, M.S. Sachs and E.S. Krous
Desalting saline irrigation-water supplies for agriculture. A case study — Lower Colorado River Basin, USA 5 suppl.(1969)207

Krumbholz Ch.

W. Gudernatsch, C. Krumbholz and H. Strathmann
Development of an anion-exchange membrane with increased permeability for organic acids of high molecular weight 79(1990)249

Kubo Y.

H. Koushiro and Y. Kubo
The use of hollow fiber filters to improve condensate purification efficiency in thermal power plants 98(1994)361

Kubota M.

T. Sawa, M. Kubota, S. Takahashi and Y. Masaki
Development of water re-use treatment system for municipal wastewater 32(1980)373

Kubota S.

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
Experiments on seawater desalination by membrane distillation 69(1988)19

Kubota T.

K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
New composite charged reverse osmosis membrane 68(1988)109

Kudela V.

V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
Asymmetric behavior of membranes in pressure driven processes 46(1983)447

M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
Characteristic of the critical state of membranes in ED-desalination of milk whey 86(1992)173

K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul
Electrochemical characterization of charged membranes and membrane systems 104(1996)19

Kuenstle K.

K. Kuenstle and V. Janisch
Optimization of a dual purpose plant for seawater desalination and electricity production 30(1979)555

K. Kuenstle and G. Brunner
An integrated self sufficient multipurpose plant for seawater desalination 39(1981)459

K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel
Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant 44(1983)61

Kuepper T.

M. Silbernagel, T. Kuepper and E. Oklejas
Evaluation of a pressure boosting pump/turbine device for reverse osmosis energy recovery: Extended testing on a seawater desalination system 88(1992)311

Kugawa Y.

T. Honda and Y. Kugawa
Recycling of sewage treatment water by ozone 98(1994)327

Kuiper D.

D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw
The use of reverse osmosis for the treatment of Rhine river water. Part I 14(1974)163

D. Kuiper, J.L. Van Hezel and C.A. Bom
The use of reverse osmosis for the treatment of river Rhine water. Part II 15(1974)193

R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj
Operating experiences with seawater reverse osmosis plants in the Middle East 29(1979)319

R.A. Tidball and D. Kuiper
Operating experiences with seawater reverse osmosis plants in the Middle East 32(1980)199

D. Kuiper and M. Mendia
Conceptual design aspects of reverse osmosis 35(1980)273

Kujawski W.

A. Narebska, S. Koter and W. Kujawski
Ions and water transport across charged Nafion membranes. Irreversible thermodynamics approach 51(1984)3

Kula M. -R.

B. Reismeier, K.H. Kroner and M.-R. Kula
Harvest of microbial suspensions by microfiltration 77(1990)219

Kulbe K.D.

S. Novalic, J. Okwor and K.D. Kulbe
The characteristics of citric acid separation using electrodialysis with bipolar membranes 105(1996)277

Kuleshov N. F.

G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov
Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis 46(1983)171

Kulikov S.M.

S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov
Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis 104(1996)107

Kulikova O.M.

S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov
Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis 104(1996)107

Kulkarni A.

D. Mukherjee, A. Kulkarni and W.N. Gill
Chemical treatment for improved performance of reverse osmosis membranes 104(1996)239

Kulkarni B.D.

R. Selvaraj, P.B. Deshpande, S.S. Tambe and B.D. Kulkarni
Neural networks for the identification of MSF desalination plants 101(1995)185

Kulozik U.

H.D. Obermeyer, U. Kulozik and H.G. Kessler
Controlled deposit formation to influence the retention of solutes in reverse osmosis and ultrafiltration 90(1993)161

C. Schwab, U. Kulozik and H.G. Kessler
Effect of structure controlled deposited layers on the retention of flavour compounds in reverse osmosis 90(1993)173

Kumano A.

N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi
The effect of heavy metal ions on the oxidation of cellulose triacetate membranes 96(1994)431

A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis 96(1994)451

Kumar A.

M.S. Sodha, A. Kumar and G.N. Tiwari
Utilization of waste hot water for distillation 37(1981)325

G.N. Tiwari and A. Kumar
Nocturnal water production by tubular solar stills using waste heat to preheat brine 69(1988)309

R.S. Adhikari and A. Kumar
Transient simulation studies on a multi-stage stacked tray solar still 91(1993)1

Kunin R.

R. Kunin
Further studies on the weak electrolyte ion exchange resin desalination process (DESAL Process) 4(1968)38

Kunisada Y.

Y. Kunisada, Y. Murayama and M. Hirai
The development of seawater desalination by reverse osmosis process in Japan 22(1977)243

H. Ogasawara, Y. Kunisada, H. Kaneda and M. Hirai
Desalination in the reuse of industrial waste water 23(1977)113

Y. Kunisada and Y. Murayama
Long term experiments on sea water desalination at the Chigasaki Laboratory 27(1978)333

Y. Kunisada, H. Kaneda, M. Hirai and Y. Murayama
Sea water desalination by reverse osmosis in Chigasaki Laboratory 30(1979)337

Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
Operating experience on RO sea water desalination plant at Chigasaki Laboratory 39(1981)413

Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama
Desalination of high salinity sea water by reverse osmosis (Summary) 46(1983)145

Kunst (Köln) B.

B. Kunst (Köln)
Optimization of flash distillation plants for sea-water conversion 3(1967)195

B. Kunst (Köln)
Optimum brine temperature in nuclear and fuel-operated power plants coupled with multi-stage flash evaporator 5 suppl.(1969)483

B. Kunst (Köln) and J. Hapke
Prorating methods for coupled production of power, fresh water and energy for district heating 26(1978)309

B. Kunst (Köln)
Performance tests on a vertical tube evaporator 38(1981)149

B. Kunst (Köln)
Equations for condensation in fluted tubes (in German) 45(1983)265

Kunst (Zagreb) B.

B. Kunst and S. Sourirajan
Performance of some improved porous cellulose acetate membranes for low pressure reverse osmosis desalination 8(1970)139

B. Kunst, G. Arneri and Z. Vajnaht
On the comparison of reverse osmosis membrane performance 16(1975)169-177, Err. 17(1975)395

D. Sambrailo, B. Kunst and H. Ivekovic
Reverse osmosis in seawater concentration 46(1983)125

D. Sambrailo and B. Kunst
On the calculation of stream concentrations in reverse osmosis processes 60(1986)111

D. Sambrailo and B. Kunst
Asymmetric membrane formation. Is the evaporation step necessary? 64(1987)321

D. Sambrailo and B. Kunst
Technoeconomic considerations in reverse osmotic concentration of seawater 81(1991)209

L. Kastelan-Kunst, D. Sambrailo and B. Kunst
On the skinned cellulose triacetate membranes formation 83(1991)331

Kunz B.

S. Hausmanns, G. Laufenberg and B. Kunz
Rejection of acetic acid and its improvement by combination with organic acids in dilute solutions using reverse osmosis 104(1996)95

V. Tödtheide, C. Laufenberg and B. Kunz
Waste water treatment using reverse osmosis: Real osmotic pressure and chemical functionality as influencing parameters on the retention of carboxylic acids in multi-component systems 110(1997)213

Kunz G. K.

G.K. Kunz
Ion-exchange pretreatment for sea water desalination plants 3(1967)363

Küpcü S.

S. Küpcü, M. Sára and U.B. Sleytr
Influence of covalent attachment of low molecular weight substances on the rejection and adsorption properties of crystalline proteinaceous ultrafiltration membranes 90(1993)65

Kupitz J.

A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
Need and feasibility of nuclear desalination for low cost potable water production 81(1991)505

J. Kupitz and M.J. Crijns
Perspectives of nuclear energy for seawater desalination 99(1994)299

Kurashige M.

Y. Kurokawa, M. Kurashige and N. Yui
A viscoelastic model for initial flux decline through reverse osmosis membrane 52(1984)9

Kurata H.

S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
Separation of proteins by charged ultrafiltration membranes 70(1988)191

Kurbiel J.

J. Kurbiel, K. Zeglin and S.M. Rybicki
Implementation of the Cracow municipal wastewater reclamation system for industrial water reuse 106(1996)183

J. Kurbiel, W. Balcerzak, S.M. Rybicki and K. Swist
Selection of the best desalination technology for highly saline drainage water from coal mines in southern Poland 106(1996)415

Kurdali A.

A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control 92(1993)43

A. Kurdali, A. Woldai and D.M.K. Al-Gobaisi
Knowledge based systems for desalination processes 92(1993)295

G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz
Towards improved automation for desalination processes. Part II: Intelligent control 97(1994)507

Kurihara M.

R. Endon, T. Tanaka, M. Kurihara and K. Ikeda
New polymeric materials for reverse osmosis membranes 21(1977)35

M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara
Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis 32(1980)13

M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi
Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials 38(1981)449

R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura
Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements 46(1983)57

M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura
Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules 46(1983)101

J.-Y. Chen, M. Kurihara and W. Pusch
Transport coefficients of asymmetric and composite membranes 46(1983)379

N. Matsuka, Y. Nakagawa, M. Kurihara and T. Tonomura
Reaction kinetics of sodium bisulfite and dissolved oxygen in seawater and their applications to seawater reverse osmosis 51(1984)163

M. Kurihara, T. Uemura, Y. Nakagawa and T. Tonomura
The thin-film composite low pressure reverse osmosis membranes 54(1985)75

M. Kurihara, W. Pusch and T. Tanaka
Transport properties of Toray's asymmetric cellulose acetate membranes 56(1985)251

M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura
Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination 96(1994)133

Kurilova E.B.

V.G. Rifert, P.A. Barabash, N.N. Goliayd and E.B. Kurilova
Stand-alone thermal desalination plants 96(1994)183

Kurnik R. T.

R.T. Kurnik and A.J. Barduhn
Thermodynamic properties of normal butane at refrigeration temperatures 26(1978)211

Kuroda K.

D.P. Logan and K. Kuroda
Improved high temperature MSF evaporator operation for potable water production 54(1985)361

Kuroda O.

O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike
Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale 22(1977)515

O. Kuroda, S. Takahashi and M. Nomura
Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer 46(1983)225

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Kurokawa Y.

Y. Kurokawa, T. Tsuchiya and N. Yui
Application of regular solution theory to organic solute rejection by reverse osmosis 29(1979)233

Y. Kurokawa
Adsorption of water on cellulose acetate membrane 36(1981)285

Y. Kurokawa
RO separation of rare earth ions from aqueous solution by hydrous Fe oxide-cellulose composite membrane 41(1982)115

Y. Mashiko, Y. Kurokawa and S. Saito
Initial flux decline of the cellulose acetate butylate membranes with time under RO performance 48(1983)147

Y. Kurokawa, M. Kurashige and N. Yui
A viscoelastic model for initial flux decline through reverse osmosis membrane 52(1984)9

Y. Kurokawa, Y. Mashiko and S. Saito
RO transport properties of several electrolytes through homogeneous CA membrane 58(1986)19

Kusakari K.

K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada
Electrodialysis plant at Hatsushima 21(1977)45

Kusavsky A. M.

A.M. Kusavsky and V.P. Shulika
Heat regime of ion-exchange membranes' performance 46(1983)203

Kusumoto K.

K. Kusumoto and Y. Mizutani
New anion-exchange membrane resistant to organic fouling 17(1975)111

K. Kusumoto, Y. Mizumoto and Y. Mitzutani
Modification of anion-exchange membranes by oxidation of selected chemical sites for the purpose of preventing fouling during dialysis 17(1975)303

Kutbi I. I.

A.M. El-Nashar and I. Kutbi
The performance of the 12,000 m3/day seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia 38(1981)399

I.I. Kutbi, A.M. Metwally, Z.A. Sabri and A.A. Husseiny
Reliability of the Jeddah seawater RO desalination plant based upon operations experience 39(1981)179

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Performance evaluation of MSF plants, the case of Jeddah plants 39(1981)193

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Reliability of MSF processes based on operation history 41(1982)81

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Operational data analysis of MSF desalination plants. A case study of Jeddah I 42(1982)163

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Reliability analysis of reverse osmosis plant 42(1982)291

I.I. Kutbi and A.M.A. Ahmed
Comparative cost analysis of nuclear versus oil-fired dual-purpose desalination plants 58(1986)43

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Selection for desalination processes for dual-purpose nuclear plants 58(1986)113

I.I. Kutbi
A systematic approach for detection of malfunctions in equipment of nuclear desalination plants during operation 81(1991)451

I.I. Kutbi and K.M. Al-Sulaiman
Features of nuclear desalination systems for Saudi Arabia 97(1994)327

Kutowy O.

O. Kutowy, W.L. Thayer and S. Sourirajan
High flux cellulose acetate ultrafiltration membranes 26(1978)195

C.M. Tam, T.A. Tweddle, O. Kutowy and J.D. Hazlett
Polysulfone membranes. II. Performance comparison of polysulfone-poly(N-vinyl-pyrrolidone) membranes 89(1993)275

A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura
Membrane separation of low volatile organic compounds by pervaporation and vapor permeation 90(1993)209

Kuzma-Kichta Y.A.

Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
Experimental investigation of the dryout at low mass velocities and pressures 108(1996)375

Kuznetsova I. K.

N.S. Orlov, I.K. Kuznetsova and A.G. Borodkin
Comparison of different channel constructions and their efficiency in membrane cells 84(1991)223

Kuzumoto H.

H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai
Single-pass desalination of high salinity seawater with reverse osmosis 38(1981)441

S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino
New disinfection method in RO seawater desalination systems 96(1994)191

Kvajic G.

G. Kvajic
Solar power/desalination, PV*ED system 39(1981)175

Kwak J.C.T.

J.C.T. Kwak
EMF measurements for selectivity determinations of highly selective membranes. Comparison of a flow-cell method and the membrane-strip method 11(1972)61

S.G. Wong and J.C.T. Kwak
Membrane potential measurements on cellulose acetate membranes 15(1974)213

La Bar M. P.

M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters
Power and water co-production feasibility study of Florida power and light power plants 88(1992)267

Laban H.

H. Laban and W. Hohenhinnebusch
Combination of a sea-water flash-distillation plant with a nuclear plant arising from experience gained with conventional installations 5 suppl.(1969)93

Labayru R.

D.A. White, R. Labayru, H.R. Obermoller and X. Deryde
The application of inorganic membranes to electrodialysis processes 84(1991)177

Labbe M.

C. Ripoll, M. Labbe, L. Lavielle and E. Selegny
Simultaneous automatic measurement of salt and water fluxes through a charged membrane 41(1982)289

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Laborie J.

C. Temstet, G. Canton, J. Laborie and A. Durante
A large high-performance MED plant in Sicily 105(1996)109

Lacey R. E.

R.E. Lacey and E.W. Lang
Development and evaluation of the electrosorption process for the desalination of water 2(1967)387

Lacroix R.

A. Bernard and R. Lacroix
Concrete structures for desalination plants (in French) 29(1979)331

A. Bernard, R. Lacroix and M. Izabel
Concrete structure for desalination plants (in French) 31(1979)385

Ladizhensky I.

E. Korngold, E. Korin and I. Ladizhensky
Water desalination by pervaporation with hollow fiber membranes 107(1996)121

Laesser P.

I.M.R. Jamjoom, P. Laesser and A.H. Feizlmayr
The Riyadh water transmission system (RWTS) 39(1981)241

Lahrs J.

J. Lahrs
Separation of molecular mixtures by membranes — A new module system 51(1984)37

Lai L.L.

A.F. Abdulbary, L.L. Lai, D.M.K. Al-Gobaisi and A. Husain
Experience of using the neural network approach for identification of MSF desalination plants 92(1993)323

Laird A. D. K.

B.W. Tleimat, E.D. Howe and A.D.K. Laird
Assessment of vapor compression distillation 2(1967)287

N. Lior, J. Leibovitz and A.D.K. Laird
A distillate collection and measurement system with a non-contact photoelectric level controller 13(1973)93

A.D.K. Laird and B.W. Tleimat
Desalting geothermal brines 19(1976)309-316, Err. 21(1977)234

B.W. Tleimat, E.D. Howe and A.D.K. Laird
Solar-assisted still with vapor-compression option 22(1977)41

C.S. Wang, R. Greif and A.D.K. Laird
Heat transfer in a rotating disk evaporator 33(1980)259

Lakshminarayanaiah N.

N. Lakshminarayanaiah
Water transport through cation-exchange membranes 3(1967)97

Laktionov E.V.

V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko
Prediction of the behavior of long electrodialysis desalination channels through testing short channels 107(1996)245

N.D. Pismenskaya, E.V. Laktionov, V.V. Nikonenko and V.I. Zabolotsky
Choosing the electrodialyzer design and hydraulic modes for demineralization of dilute solutions 108(1996)149

Lammers J.

J. Lammers, G. Scheffler and P. Monheim
Some design aspects deduced from the thermodynamic calculations for MSF desalination plants 22(1977)385-393, Err. 23(1977)588

G. Scheffler and J. Lammers
Integration of MSF desalination plants into large steel works complexes in coastal regions 23(1977)433

Lancet D.

U. Rosenthal, J. Nechushtan, A. Kedem, D. Lancet and M.A. Frommer
An apparatus for studying the mechanism of membrane formation 9(1971)193

Landau M.

M. Landau and A. Martindale
Assessment of crystalliser designs for a butane freeze desalination process 3(1967)318

Landolt D.

J.M. Jackson and D. Landolt
About the mechanism of formation of iron hydroxide fouling layers on reverse osmosis membranes 12(1973)361

Lang E.W.

R.E. Lacey and E.W. Lang
Development and evaluation of the electrosorption process for the desalination of water 2(1967)387

Lang Kangmin

Yurong Liu, Kongmon Lang, Yiming Chen and Bangxiao Cai
Effect of heat treating and dry conditions on the performance of cellulose acetate reverse osmosis membrane 54(1985)185

Liu Yurong, Cai Bangxiao, Chen Yiming and Lang Kangmin
Concentrating xylose solution by reverse osmosis with cellulose acetate dry membrane 62(1987)193

Cai Bang-xiao, Lang Kong-min, Liu Yu-rong and Chen Yi-ming
The refinement and concentration of agricultural antibiotic A in aqueous solution using membrane processes 62(1987)341

Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
Low-pressure reverse osmosis drying membrane reinforced by polyester web 64(1987)403

K. Lang, S. Sourirajan, T. Matsuura and G. Chowdhury
A study on the preparation of polyvinyl alcohol thin-film composite membranes and reverse osmosis testing 104(1996)185

Langdown D.J.

K.J. McGlone, E.G. Darton, D.J. Langdown and A. Rahman
Factors affecting the design of a pre-treatment system for a 1,200 m3/d RO plant in Riyadh, Saudia Arabia with an iron-rich, 60oC feed water 96(1994)397

Lange P.

R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj
Operating experiences with seawater reverse osmosis plants in the Middle East 29(1979)319

P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson
THM precursor removal and softening - Ft. Myers 12 MGD RO Membrane Plant, Florida, USA 76(1989)39

S. Kremen, M. Wilf and P. Lange
Operating results and economics of single stage and two stage large size sea water RO systems 82(1991)15

Langevin D.

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Langley, Jr. R. A.

R.A. Langley, Jr. and R.L. Clark
The sodium-cooled fast-breeder reactor as a heat source for desalination plants 5 suppl.(1969)351

Lantz P.M.

R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey
Rapid batch and continuous electroanalysis for the chloride ion 9(1971)333

R.E. Meyer, F.A. Posey and P.M. Lantz
An electrochemical method for monitoring the oxygen content of aqueous streams at the part-per-billion level 11(1972)329

L.B. Yeatts, P.M. Lantz and W.L. Marshall
Calcium sulfate solubility in brackish water concentrates and applications to reverse osmosis processes: Polyphosphate additives 15(1974)177

Laporta C.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

Lapray J. F.

A. Le Grand, J. Gatignol and J.-F. Lapray
Studies, testing, and development of a line of brine recirculating pumps for sea water desalinization installations 39(1981)351

Larger D.

D. Larger
Essentials on seawater desalination through vapour compression 31(1979)131-134, Err. 31(1979)125

H. Morsy, D. Larger and K. Genthner
A new multiple-effect distiller system with compact heat exchangers 96(1994)59

Largier J.

J.V. Del Bene, G. Jirka and J. Largier
Ocean brine disposal 97(1994)365

Lariviere J.A.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

Larson R. E.

R. Rawson, R. Larson, R. Shuchman and R. Worsfold
The capability of SAR systems for iceberg detection and characterization 29(1979)109

J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson
A new thin-film composite seawater reverse osmosis membrane 32(1980)25

R.E. Larson, J.E. Cadotte and R.J. Petersen
The FT-30 seawater reverse osmosis membrane: Element test results 38(1981)473

R.E. Larson, R.J. Petersen and P.K. Eriksson
Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements 46(1983)81

R. Larson, W. Albers, J. Beckman and S. Freeman
The carrier-gas process — a new desalination and concentration technology 73(1989)119

Larson T. J.

T.J. Larson
Reverse osmosis pilot plant operation: a spiral module concept 7(1970)187

T.J. Larson and D.G. Argo
Large scale water reclamation by reverse osmosis 19(1976)421

T.J. Larson and G. Leitner
Desalting seawater and brackish water: A cost update 30(1979)525

Larsson K.

K. Larsson
Interfacial phenomena — Bioadhesion and biocompatibility 35(1980)105

Laskorin B. N.

N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov
The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions 46(1983)197

Latapí Fox E.

E. Latapí Fox
Experience with a vertical tube evaporator with a fiberglass shell (in Spanish) 19(1976)25

C.A. Fernández, B.H. Huerta and F.E. Latapí
Feasibility of seawater desalination to solve water shortage problems of the Salina Cruz (Pemex) refinery 73(1989)61

Latif N. A.

N.A. Latif, F.M. Al-Awadi and B.A. Colenutt
Trihalomethanes (THMs) formation in multi-stage flash (MSF) distillation plants 74(1989)205

Latour S. R.

S.R. Latour
Seawater reverse osmosis — Statement of the art assessment 32(1980)221

Lau W.Y.

Y. Wang, W.Y. Lau and S. Sourirajan
Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes 95(1994)155

Laufenberg C.

V. Tödtheide, C. Laufenberg and B. Kunz
Waste water treatment using reverse osmosis: Real osmotic pressure and chemical functionality as influencing parameters on the retention of carboxylic acids in multi-component systems 110(1997)213

Laufenberg G.

S. Hausmanns, G. Laufenberg and B. Kunz
Rejection of acetic acid and its improvement by combination with organic acids in dilute solutions using reverse osmosis 104(1996)95

Laughlin J. K.

R.R. Yamada, J.K. Laughlin and D.K. Wood
Co-located seawater desalination/power facilities: Practical and institutional issues 102(1995)279

Lauro F.

P. Balligand, J.P. Agostini, J. Huyghe, F. Lauro and P. Vignet
Etude d'usines de dessalement associées à un réacteur nucléaire du type uranium naturel-gaz-graphite et fonctionnant suivant différents procédés de distillation 5 suppl.(1969)425

F. Dubois, F. Lauro and J.J. Libert
Some recent developments in sea water distillation carried out in France 23(1977)423

B. Lerouge and F. Lauro
Thermos reactor, energy source for desalination (in French) 30(1979)571

J. Croix and F. Lauro
Improved performance of heat transfer surfaces in desalination (in French) 31(1979)35

P. Combaz, J.C. Deronzier and F. Lauro
Application of low-temperature waste heat distillation in nuclear plants (in French) 31(1979)207

F. Lauro
Multi-effect desalination plant using a plastic heat transfer surface (in French) 31(1979)221

J.C. Deronzier, F. Lauro and R. Ployart
Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller 39(1981)117

M. Rey and F. Lauro
Ocean thermal energy and desalination 39(1981)159

Laverty P. E.

C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty
Yuma desalting test facility: Foulant component study 47(1983)239

R.A. Bergman, H.W. Harlow and P.E. Laverty
Resolution of RO flux decline problems at Englewood, Florida 54(1985)55

P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson
THM precursor removal and softening - Ft. Myers 12 MGD RO Membrane Plant, Florida, USA 76(1989)39

Lavielle L.

C. Ripoll, M. Labbe, L. Lavielle and E. Selegny
Simultaneous automatic measurement of salt and water fluxes through a charged membrane 41(1982)289

Lavigin V. M.

L.S. Sterman, V.M. Lavigin and V.D. Rojnatovsky
The quality of the distillate of desalination plants with a washing device 45(1983)253

Lavygin V. M.

L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Viceblatt and V.M. Lavygin
The choice of basic parameters of a multi-stage flash plant for sea water desalination 4(1968)94

Law M.

M. Law, T. Wen and G.S. Solt
Thickness and concentration profile of the boundary layer in electrodialysis 109(1997)95

Lawrence P.F.

J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence
The corrosion of aluminium alloys in hot brine 9(1971)245

Lawrence R. W.

C.W. Saltonstall, Jr. and R.W. Lawrence
Calculation of the expected performance of reverse osmosis plants 42(1982)247

Lawrence S. A.

G.N. Tiwari and S.A. Lawrence
Thermal evaluation of high temperature distillation under an active mode of operation 85(1992)135

Layson A.

B. Chakravorty and A. Layson
Ideal feed pretreatment for reverse osmosis by continuous microfiltration 110(1997)143

Lazare L.

L. Lazare
The Puraq seawater desalination process 42(1982)11

L. Lazare
The Puraq seawater desalination process — An update 85(1992)345

Lazzarino L.

L. Lazzarino and R. Di Menza
Economical evaluation of organic moderated and cooled reactors (ROVI) designed to produce vapor for desalting plants 2(1967)220

Le Goff J.

R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff
A hardy, high-yield solar distiller of brackish water 67(1987)43

P. Le Goff, J. Le Goff and M. Razak Jeday
Development of a rugged design of a high efficiency multi-stage solar still 82(1991)153

Le Goff P.

R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff
A hardy, high-yield solar distiller of brackish water 67(1987)43

P. Le Goff, J. Le Goff and M. Razak Jeday
Development of a rugged design of a high efficiency multi-stage solar still 82(1991)153

Le Grand A.

A. Le Grand and J. Gatignol
Seawater pumping stations (in French) 31(1979)173

A. Le Grand, J. Gatignol and J.-F. Lapray
Studies, testing, and development of a line of brine recirculating pumps for sea water desalinization installations 39(1981)351

le Martret J.P.

J.P. le Martret
Desalination through the vapour compression process in large plants 19(1976)337

Leahy T. M.

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

Lebedev A. H.

O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova
Corrosion behaviour of aluminium-base alloys in desalination plants 73(1989)457

Lebedev A. N.

A.N. Lebedev, A.S. Derbyshev and N.A. Kabluchko
Some results of the investigations on corrosion protection of desalination plant equipment 44(1983)233

Lebedev P. K.

J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
Operating experience of desalination units in Schevchenko 45(1983)167

Lebedeva O. M.

O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova
Corrosion behaviour of aluminium-base alloys in desalination plants 73(1989)457

Lebedeva T.L.

A.L. Iordanskii, L.P. Razumovskii, A.V. Krivandin and T.L. Lebedeva
Diffusion and sorption of water in moderately hydrophilic polymers: From segmented polyetherurethanes to poly-3-hydroxybutyrate 104(1996)27

Leblond J.

Y. Alayli, N.E. Hadji and J. Leblond
A new process for the extraction of water from air 67(1987)227

Lee D.R.

D.R. Lee, J.M. Hargreaves, L. Badertscher, L. Rein and F. Kassir
Reverse osmosis and activated alumina water treatment plant for the California State prisons located near Blythe 103(1995)155

Lee H. M.

C.J. Huang, H.M. Lee and A.E. Dukler
Mathematical model and computer program for simulation and optimum design of vertical tube evaporation plants for saline water conversion 6(1969)25

Lee K. L.

H.B. Hopfenberg, K.L. Lee and C.P. Wen
Improved membrane separations by selective chelation of metal ions in aqueous feeds 24(1978)175

Lee Sangyong

Kwangwon Seul and Sangyong Lee
Numerical predictions of evaporative behaviors of horizontal stream inside a multi-stage-flash distillator 79(1990)13

Kwangwon Seul and Sangyong Lee
Effect of liquid level on flow behaviors inside a multi-stage flash evaporator - A numerical prediction 85(1992)161

Lee W. S. W.

W.S.W. Lee, J.-W. Oldfield and B. Todd
Corrosion problems caused by bromine formation in additive dosed MSF desalination plants 44(1983)209

Lee Wangching

A.J. Barduhn and W.-C. Lee
Thermodynamic properties of F-22(CHCIF2) hydrate for use in desalting 25(1978)151

Lee Y.

Y. Lee and M.M. Clark
A numerical model of steady-state permeate flux during cross-flow ultrafiltration 109(1997)241

Lee Yong Moo

Young Moo Lee
Modified chitosan membranes for pervaporation 90(1993)277

Lee Yongtaek

W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee
Flow patterns in radial flow hollow fiber reverse osmosis systems 68(1988)11

Lefebvre C.

P. Hoornaert, C. Lefebvre and A. Van Haute
Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes 11(1972)315

Lefebvre M. S.

M.S. Suwandi and M.S. Lefebvre
Performance of fractal membranes in the ultrafiltration of skim natural rubber latex 70(1988)225

Jin Sheng, R.A. Johnson and M.S. Lefebvre
Mass and heat transfer mechanisms in the osmotic distillation process 80(1991)113

Jin Sheng and M.S. Lefebvre
Diluted brine concentration process using membrane pervaporation technique: Laboratory scale studies 91(1993)253

Leger J. P.

J.P. Leger and L.C. Hawker
The composition and structure of reverse osmosis foulant deposits formed from Rand Water Board water: A preliminary investigation 61(1987)137

Leibovitz J.

C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler
Polarization at ion-exchange membranes in electrodialysis 10(1972)181

N. Lior, J. Leibovitz and A.D.K. Laird
A distillate collection and measurement system with a non-contact photoelectric level controller 13(1973)93

Leidi G.

B. Marcandalli, E. Selli, R. Tacchi, I.R. Bellobono and G. Leidi
A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients 51(1984)113

Leimgruber R.

R.A. Leimgruber
Toxicological aspects of scale preventative agents used in desalination equipment for drinking water 30(1979)401

R. Leimgruber
Toxicological aspects of scale preventative agents used in desalination equipment for drinking water by desalination 30(1979)615-620, Err. 30(1979)401

Leitner G.

T.J. Larson and G. Leitner
Desalting seawater and brackish water: A cost update 30(1979)525

Leitner G. F.

G.F. Leitner
Waste concentration vs. evaporation ponds for reverse osmosis reject water. A case study 44(1983)31

G.F. Leitner
Economic feasibility of the reverse osmosis process for seawater desalination 63(1987)135

G.F. Leitner
Costs of seawater desalination in real terms, 1979 through 1989, and projections for 1999 76(1989)201

G.F. Leitner
Total water costs on a standard basis for three large, operating, S.W.R.O. plants 81(1991)39

G.F. Leitner and W. Leitner
Life cycle and present worth cost concepts, applicable for large desalting plants? 97(1994)291

G.F. Leitner
Whatever happened to seawater desalting in the US? (Can the trend be changed?) 102(1995)199

Leitner W.

W. Leitner
Potable water desalination in the U.S. Capital costs, operating costs and water selling prices 88(1992)279

G.F. Leitner and W. Leitner
Life cycle and present worth cost concepts, applicable for large desalting plants? 97(1994)291

Leitz F B.

W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander
Recent developments in electrodialysis at elevated temperatures 4(1968)236

F.B. Leitz and W.A. McRae
An engineering analysis of piezodialysis 10(1972)293

F.B. Leitz
Piezodialysis 13(1973)373

J. Shorr and F.B. Leitz
Development of membranes and resins for piezodialysis 14(1974)11

F.B. Leitz, M.A. Accomazzo and W.A. McRae
High temperature electrodialysis 14(1974)33

K.R. Fröhner and H. Panahandeh
An advanced seeding process in saline water conversion 16(1975)261

F.B. Leitz and E.I. Ewoldsen
Design criteria for the Yuma desalting plant 24(1978)321

F.B. Leitz
Measurements and control in electrodialysis 59(1986)381

Leksovskaia N. P.

N.P. Leksovskaia, Z.Y. Chereisky, I.G. Ruban and O.I. Nachinkin
Effect of the solution-gel-solid system transition on the properties of microfiltration membranes 86(1992)91

Lemaignen J.

J. Lemaignen
Electrodialysis desalination: New units 3(1967)203

Lemoyne C.

M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions 21(1977)165

Lenhard M.

R. El-Assar and M. Lenhard
Utilisation of hydraulic coupling for brine recirculation pumps 44(1983)91

Lentz H.

H. Lentz
Saline water conversion by carrier gas distillation 7(1970)245

Leon J.

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

Lepert C.

L. Goulvestre and C. Lepert
Energy recovery and pumping for 70-bar seawater osmosis (in French) 32(1980)297

Lerat H.

H. Lerat
Off shore sea water reverse osmosis plants 19(1976)201

H. Lerat
Off-shore inverse osmosis without chemical pretreatment: balance of years of experience and extension to land-based units (in French) 32(1980)201

Lerouge B.

B. Lerouge and F. Lauro
Thermos reactor, energy source for desalination (in French) 30(1979)571

Leroy P.

P. Goubeau and P. Leroy
A specific energy recovery pumping system for reverse osmosis desalination 44(1983)199

P. Leroy
Corrosion control of feeders carrying potable water from desalination of sea water. Case of the Yanbu Medina water supply system (Saudi Arabia) 44(1983)317

Lesan R.

T. Bryant, J. Stuart, I. Fergus and R. Lesan
The use of reverse osmosis as a 35,600 m3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia 67(1987)327

Leshem R.

S. Sarig, F. Kahana and R. Leshem
Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure 17(1975)215

Leslie D. C.

R.I. Hawes and D.C. Leslie
Study of the mechanism of flashing flow by experiment and theoretical analysis 2(1967)329

Lester W. C.

D.L. Brining, W.C. Lester, W.N. Jessee, D.A. O'Leary, S. Bourgeois and M.S.A. Salam
Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region 39(1981)255

Leung Kwok Kuen

Ying Kwong Chan and Kwok Kuen Leung
Chemical removal of calcium sulfate scale — Plant experience of Lok On Pai desalter 30(1979)359

Leung W. F.

R.F. Probstein, J.S. Shen and W.F. Leung
Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow 24(1978)1

Levin A.

S. Sideman and A. Levin
Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes 31(1979)7

Levite G.

G. Levite
Puraqua — United States exhibition and international conference on water purification and desalination, Rome, 17th to 23rd February, 1969 7(1969)1

Lew M.

M.E. Mattson and M. Lew
Recent advances in reverse osmosis and electrodialysis membrane desalting technology 41(1982)1

Lewis J. W.

J.W. Lewis, C.M. Ferrara and I.C. Watson
Desalting oil field by-product water 87(1992)229

Leyendekkers J. V.

J.V. Leyendekkers
Prediction of the density and viscosity of seawater, its concentrates and other multicomponent solutions using the Tammann-Tait-Gibson (TTG) model 29(1979)263

Leysen R.

W. Doyen, R. Leysen, J. Mottar and G. Waes
New composite tubular membranes for ultrafiltration 79(1990)163

Li Dong

Weida Jiang and Dong Li
Low electrical consumption electrodialyser filling ion-exchange conducting spacers 54(1985)197

Li Guobin

Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu
The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence) 85(1992)297

Li H.-C.

X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li
Effect of characterizations of spacer in electrodialysis cells on mass transfer 46(1983)243

Li Hungchai

Xuewen Zhong, Weirun Zhang, Zhaoying Hu and Hungchai Li
Experimental study of flow distribution features in the electrodialyzer 56(1985)413

Li Quan

Boshan Yu and Quan Li
Removal of chlorine from dilute salt aqueous solution with a flat microporous membrane 90(1993)335

Li Quiglin

Q. Li, Y. Fang and M.E. Green
Edge effects and orientation effects in electrodialysis 41(1982)47

Li S.-P.

Y.-C. Chang and S.-P. Li
A study of emulsified liquid membrane treatment of phenolic waste water 47(1983)351

Li Siya

Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun
An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage 62(1987)323

Li Xinpei

Fudu Miao, Xinpei Li and Yuanqi Zhang
The mathematical modeling of the removal of phenol with emulsified liquid membranes 56(1985)355

Li Yebing

Jiang Weida, Li Yebing and Ye Hongwei
Study of the structure of the polyethylene-styrene copolymer by NMR 62(1987)373

Li Zongqing

Zongqing Li and Jianwu Ling
Research on elimination of chloromethylation in preparation on anion-exchange 56(1985)421

Liang Oei Ban

C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang
Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing 93(1993)273

Libert J. J.

F. Dubois, F. Lauro and J.J. Libert
Some recent developments in sea water distillation carried out in France 23(1977)423

J.J. Libert and J.C. Viche
Some thoughts on the French water desalination program (in French) 30(1979)95

J.-J. Libert, A. Maurel and R. Lucas
Desalination and the environment (in French) 30(1979)427

J.J. Libert and A. Maurel
Desalination and renewable energies: a few recent developments 39(1981)363

J.J. Libert
Desalination and energy 40(1982)401

Liberti L.

G. Boari, L. Liberti, C. Merli and R. Passino
Exchange equilibria on anion resins 15(1974)145

A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli
Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants 16(1975)135

G. Boari, L. Liberti, M. Santori and L. Spinosa
Advanced evaporation plants with sulfate removal by ion exchange 19(1976)283

L. Liberti, G. Boari and R. Passino
Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates 25(1978)123

L. Liberti, G. Boari and R. Passino
Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges 26(1978)181

L. Liberti and G. Schmuckler
Kinetic investigation of the chloride — sulphate exchange on anion-exchange resins 27(1978)253

L. Liberti, A. Pinto and R. Passino
Chloride-sulphate exchange on anion resins, kinetic investigations. VI. Differential exchange rates in diluted systems 29(1979)255

L. Liberti, R. Passino and D. Petruzzelli
Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins 41(1982)199

A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
Results of four years of operation at high temperature (150°C) of Bari's desalination plant 45(1983)197

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

L. Liberti, R. Passino and D. Petruzzelli
Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange 48(1983)55

L. Liberti, R. Passino, M. Santori and G. Boari
Technical and economic trends of sea water desalting in the '90s 55(1985)503

R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari
Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station 66(1987)431

G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar 66(1987)443

L. Liberti and A. Lopez
Strategy for wastewater reuse for agriculture in Southern Italy 83(1991)173

Lièvre P.

L. Thiriet and P. Lièvre
Principaux facteurs d'incertitude de la rentabilité de l'énergie nucléaire pour la production d'eau dessallée 5 suppl.(1969)631

Liew M.K.H.

M.K.H. Liew, S. Tanaka and M. Morita
Separation and purification of lactic acid: Fundamental studies on the reverse osmosis down-stream process 101(1995)269

Lifson S.

S. Reich, B. Gavish and S. Lifson
Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane 24(1978)295

Light W. G.

K.A. Klinko, W.G. Light and C.M. Cummings
Factors influencing optimum seawater reverse osmosis system designs 54(1985)3

W.G. Light, H.C. Chu and C.N. Tran
Reverse osmosis TFC magnum elements. for chlorinated/dechlorinated feedwater processing 64(1987)411

W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham
Desalination of non-chlorinated surface seawater using TFCR membrane elements 70(1988)47

H.C. Chu, J.S. Campbell and W.G. Light
High-temperature reverse osmosis membrane element 70(1988)65

T.E. Sulpizio, W.G. Light and J.L. Perlman
Economic and technical factors affecting seawater reverse osmosis process design 74(1989)187

Likhyani K.K.

K.K. Likhyani and J.K. Beasley
Performance of a ceramic ultrafilter with sea water 22(1977)345

Limoni-Relis B.

D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob
Fouling of RO membranes by phthalate esters contamination 105(1996)13

D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat
Influence of the flow system on the inhibitory action of CaCO3 scale prevention additives 108(1996)67

Lin B. Y.

K.H. Hsieh, B.Y. Lin and W.Y. Chiu
Studies on diisocyanate-modified cellulose acetate membranes 71(1989)97

Lin F.-S.

S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis 11(1972)31

Lin Jifang

Hong Zhang, Xuanrong Zheng and Jifang Lin
The application of MEMS flash in reuse of alkalinous waste water 56(1985)121

Lin Kwanglung

Kwanglung Lin, Minlin Chu and Muchang Shieh
Treatment of uranium containing effluents with reverse osmosis process 61(1987)125

Lin Sheng H.

Sheng H. Lin and Ming L. Chen
Purification of textile wastewater effluents by a combined Fenton process and ion exchange 109(1997)121

Lin Si Qing

Si Qing Lin
The structure of reverse osmosis hollow fiber membrane of cellulose triacetate (CTA) 56(1985)395

Linde K.

K. Linde, A. Jönsson and R. Wimmerstedt
Treatment of three types of landfill leachate with reverse osmosis 101(1995)21

K. Linde and A.-S. Jönsson
Nanofiltration of salt solutions and landfille leachate 103(1995)223

Lindemuth T. E.

T.E. Lindemuth and L. Awerbuch
A new look at dual-purpose plant design 17(1975)75

L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers
Geothermal energy recovery process 19(1976)325

Linder C.

M. Perry and C. Linder
Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes 71(1989)233

Lindheimer A.

G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach
Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid 80(1991)193

A. Lindheimer, M. Boudet-Dumy and C. Gavach
Electrodialysis of hydrochloric acid 94(1993)151

A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach
Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons 101(1995)141

Lindsay A.L.

P.J. Selak, J. Finke and A.L. Lindsay
The architect-engineer-constructor's role in future nuclear desalination projects 5 suppl.(1969)847

Lindström M.

M. Nyström and M. Lindström
Optimal removal of chlorolignin by ultrafiltration achieved by pH control 70(1988)145

Ling Ailian

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Ling Ai-lian, Gao Yi-yuan and Wang Zhi-zhong
The influence of different types of metal complex on the transitivity of reverse osmosis membranes 62(1987)377

Ai-lian Ling and Qing Chen
Polyacrylonitrilic/polysulfone (PAN/PS) blend ultrafiltration (UF) membranes 101(1995)51

Ling Jianwu

Zongqing Li and Jianwu Ling
Research on elimination of chloromethylation in preparation on anion-exchange 56(1985)421

Linkov V.M.

V.D. Grebenyuk, A.A. Mazo and V.M. Linkov
New ecological problems of desalting and water re-use 105(1996)175

Linn T.

R. Rautenbach and T. Linn
High-pressure reverse osmosis and nanofiltration, a "zero discharge" process combination for the treatment of waste water with severe fouling/scaling potential 105(1996)63

R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz
Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis 108(1996)247

R. Rautenbach, T. Linn and D.M.K. Al-Gobaisi
Present and future pretreatment concepts - Strategies for reliable and low-maintenance reverse osmosis seawater desalination 110(1997)97

Linnhoff F.

A. Bonnin and F. Linnhoff
Industrial applications of the aqualyzer electrodialysis process using fine thickness cells 68(1988)265

Linnikov O. D.

O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin
Inhibition efficiency of scale formation by chemical additives 74(1989)355

O.D. Linnikov, V.L. Podbereznyi and I.V. Rodina
Inhibition of scale formation from natural salt waters. Inhibitor effect on chemical composition of the forming scale 82(1991)359

O.D. Linnikov, V.L. Podbereznyi, E.A. Anokhina and O.V. Guseva
Efficiency of two scale prevention methods for desalting Caspian seawater 89(1993)311

O.D. Linnikov and V.L. Podbereznyi
Prevention of sulfate scale formation in desalination of the Aral Sea water 105(1996)143

Linsteadt W.

R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
An assessment of different scale control methods 47(1983)49

Lior N.

N. Lior, J. Leibovitz and A.D.K. Laird
A distillate collection and measurement system with a non-contact photoelectric level controller 13(1973)93

S.P. Kasper and N. Lior
A methodology for comparing water desalination to competitive fresh water transportation and treatment 30(1979)541

N. Lior and R. Greif
A system for the experimental study of flash evaporation 31(1979)87

N. Lior and R. Greif
Some basic observations on heat transfer and evaporation in the horizontal flash evaporator 33(1980)269

N. Lior and E. Nishiyama
The effect of gas bubbles on flash evaporation 45(1983)231

N. Lior
Measurement of small temperature and pressure differences 59(1986)19

N. Lior
Formulas for calculating the approach to equilibrium in open channel flash evaporators for saline water 60(1986)223

S. Gopalakrishna, V.M. Purushothaman and N. Lior
An experimental study of flash evaporation from liquid pools 65(1987)139

O. Miyatake, T. Hashimoto and N. Lior
The relationship between flow pattern and thermal non-equilibrium in the multi-stage flash evaporation process 91(1993)51

N. Lior and E. Nishiyama
Some experiments on flash evaporation enhancement by electrolytically generated bubbles 100(1995)71

Lipp P.

P. Lipp, B. Görge and R. Gimbel
A comparative study of fouling-index and fouling-potential of waters to be treated by reverse osmosis 79(1990)203

Lising E.R.

E.R. Lising and R. Alward
Unsteady state operation of a reverse osmosis desalination unit 11(1972)261

Lister A.R.

W.A. Stuart and A.R. Lister
The determination of carbonate-bicarbonate ratios and total alkalinity in treated sea water 8(1970)69

Littman F. E.

F.E. Littman, H.K. Bishop and G. Belfort
A new concept in reverse osmosis design 11(1972)17

Liu Gouxin

Liu Gouxin and Wu Jiangjing
The development of polysulfonamide membrane and its application in treating chromium plating wastewater 62(1987)239

Liu Jingzhi

Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu
An experimental study on membrane distillation-crystallization for treating waste water in taurine production 80(1991)235

Liu Meikao

Meikao Liu
Iterative analysis of a continuous system for desalination by reverse osmosis 9(1971)181

Liu Moe

Zhu Changluo, Liu Moe and Xu Wei
Separation of ethanol-water mixtures by pervaporation-membrane separation process 62(1987)299

Liu Qingshang

Wu Qiulin, Cong Lanbo and Liu Qingshang
The mechanism of membrane phase separation 62(1987)69

Liu Shumin

Jingxu Qu and Shumin Liu
Electrode for electrodialysis 46(1983)233

Liu Shuxiu

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Liu Sungtsuen

Sungtsuen Liu and G.H. Nancollas
The crystallization of magnesium hydroxide 12(1973)75

Liu Tinghui

Liu Ting-hui
The application of membranes in environmental protection 62(1987)149

Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and T. Matsuura
Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes 85(1991)1

Liu Xiaoying

Xue Deming, Song Dezheng and Liu Xiaoying
The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis 62(1987)251

Liu Yurong

Yurong Liu, Kongmon Lang, Yiming Chen and Bangxiao Cai
Effect of heat treating and dry conditions on the performance of cellulose acetate reverse osmosis membrane 54(1985)185

Liu Yurong, Cai Bangxiao, Chen Yiming and Lang Kangmin
Concentrating xylose solution by reverse osmosis with cellulose acetate dry membrane 62(1987)193

Cai Bang-xiao, Lang Kong-min, Liu Yu-rong and Chen Yi-ming
The refinement and concentration of agricultural antibiotic A in aqueous solution using membrane processes 62(1987)341

Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
Low-pressure reverse osmosis drying membrane reinforced by polyester web 64(1987)403

Liu Yurong, Chen Yiming, Wang Lining and Jiang Jianhua
Study of stevioside preparation by membrane separation process 83(1991)375

Yu-rong Liu, Yi-ming Chen, Li-ning Wang and Dong-sheng Chen
A study of the modified reinforced polysulfone membrane and its pilot scale-up 96(1994)145

Livingston T.

O.K. Buros and T. Livingston
Desalination in the Virgin Islands, 1964-1982 45(1983)195

Livnat A.

A. Livnat
Desalination in Israel: Emerging key component in the regional water balance formula 99(1994)275

Livni A.

A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer
A miniature reverse osmosis/ultrafiltration system 24(1978)305

Lloyd A.I.

W.R. Burton and A.I. Lloyd
Design features of secondary refrigerant freezing plants 14(1974)151

A.I. Lloyd
An integral design for desalination plant using the secondary refrigerant freeze process 21(1977)137

Lloyd A. L.

R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis 23(1977)331

R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami
Recent developments in thin-film composite reverse osmosis membrane systems 36(1981)207

Lloyd D. R.

K.E. Kinzer, D.R. Lloyd, J.P. Wightman and J.E. McGrath
Asymmetric membrane preparation from nonsolvent casting systems 46(1983)327

S.W. Thiel and D.R. Lloyd
Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from single solute aqueous solution 46(1983)399

T.P. Ventoza and D.R. Lloyd
Poly(ether sulfone) membranes for desalination: Membrane preparation and characterization 56(1985)381

Lobcova N.V.

V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range 25(1978)269

Lobos E.

M. Bodzek, Z. Debkowska, E. Lobos and K. Konieczny
Biomembrane wastewater treatment by activated sludge method 107(1996)83

Lodi G.

P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
Using a homogeneous model in simulation of sea water desalination condenser 65(1987)123

Loeb S.

S. Loeb
Composite tubular assembly for reverse osmosis desalination 1(1966)35

D. Stevens and S. Loeb
Reverse osmosis desalination costs derived from the Coalinga pilot plant operation 2(1967)56

S. Loeb and E. Selover
Sixteen months of field experience on the Coalinga pilot plant 2(1967)75

S. Loeb and M.R. Bloch
Countercurrent flow osmotic processes for the production of solutions having a high osmotic pressure 13(1973)207

M. Weintraub and S. Loeb
Relationships between concentration, solute mass and membrane rejection 17(1975)131

S. Loeb
Circumstances leading to the first municipal reverse osmosis desalination plant 50(1984)53

Loewy T.

T. Loewy
The case for seawater desalination to solve the water shortage in the Gaza Strip 99(1994)447

Logan D. P.

A.L. Smith, D.P. Logan, H.E. Nehus and M.L. Delitsky
Elimination of mineral acid dosing to control water formed scale in brackish water RO systems 54(1985)277

D.P. Logan and S. Kimura
Control of gypsum scale on reverse osmosis membranes 54(1985)321

D.P. Logan and K. Kuroda
Improved high temperature MSF evaporator operation for potable water production 54(1985)361

Loginov A. A.

Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski
Analysis of the technical and economic data of multi-purpose nuclear plants (in German) 5(1968)201

Y.I. Koryakin, A.A. Loginov and V.A. Chernyaev
Methodological aspects of technico-economic parameters of nuclear desalination plants 7(1970)323

Loh G. T.

M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters
Power and water co-production feasibility study of Florida power and light power plants 88(1992)267

Lohman E.M.

E.M. Lohman
Operating report of the largest reverse osmosis desalting plant 96(1994)349

Löhrl-Thiel H.

H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich
Investigations in regard of MSF desalination plant engineering during 7 years of operation 31(1979)159

Lomakina S. V.

O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova
Corrosion behaviour of aluminium-base alloys in desalination plants 73(1989)457

Lomax I.

J.A. Redondo and I. Lomax
Experiences with the pretreatment of raw water with high fouling potential for reverse osmosis plant using FILMTEC membranes 110(1997)167

Lonsdale H.K.

U. Merten, H.K. Lonsdale, R.L. Riley and K.D. Vos
Performance of cellulose acetate membranes in sea water desalination 3(1967)353

F.M. Graber, H.K. Lonsdale, C.E. Milstead and B.P. Cross
Boron rejection by cellulose acetate reverse osmosis membranes 7(1970)249

C.E. Milstead, A.B. Riedinger and H.K. Lonsdale
Rejection of carbon dioxide and pH effects in reverse osmosis desalination 9(1971)217

H.K. Lonsdale
Recent advances in reverse osmosis membranes 13(1973)317-332, Err. 14(1974)248, 14(1974)394

H.K. Lonsdale
OWRT Symposium on Membrane Processes, held at Wrightsville Beach, Nurlll Carolina, November 17-19, 1980 34(1980)329

Looyen C. D.

C.D. Looyen
Iceberg utilization and alternative systems related to fresh water transport: Recycling and supplementary desalinization 29(1979)173

Lopez A.

L. Liberti and A. Lopez
Strategy for wastewater reuse for agriculture in Southern Italy 83(1991)173

Lopez J. G.

C.K. Wojcik, J.G. Lopez and J.W. McCutchan
Application of reverse osmosis to reclamation of municipal wastewaters 32(1980)353

Lopez M.

M. Lopez
The Yuma desalting plant 30(1979)15

Lopez V.

A. Chapotot, V. Lopez, A. Lindheimer, N. Aouad and C. Gavach
Electrodialysis of acid solutions with metallic divalent salts: Cation-exchange membranes with improved permeability to protons 101(1995)141

Lopez-Leiva M.

B. Hallström and M. Lopez-Leiva
Description of a rotating ultrafiltration module 24(1978)273

M. López-Leiva
Ultrafiltration at low degrees of concentration polarization: Technical possibilities 35(1980)115

B. Hägerdal, M. López-Leiva and B. Mattiasson
Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose 35(1980)365

Lora J.

J. Lora and E. Soriano
Composite membranes of aromatic polyamide for desalination: Membrane preparation and characterization 64(1987)375

J. Lora and J.M. Arnal
The effect of agitation on reverse osmosis desalination 79(1990)261

M.I. Iborra, J. Lora, M.I. Alcaina and J.M. Arnal
Effect of oxidation agents on reverse osmosis membrane performance to brackish water desalination 108(1996)83

Lorrain Y.

Y. Lorrain, G. Pourcelly and C. Gavach
Transport mechanism of sulphuric acid through an anion exchange membrane 109(1997)231

Losch J.

R. Kadaj, D. McMillan and J. Losch
A low pressure reverse osmosis facility for Marco Island (FL) 102(1995)25

Lott J.L.

D.W. Johnson, J.L. Lott and C.M. Sliepcevich
The exchange crystallization freeze desalination process 18(1976)231

Low R. E.

A.J. Crerar, R.E. Low and C.L. Pritchard
Wave powered desalination 67(1987)127

Low S. C.

S.C. Low and J.H. Tay
Vacuum desalination using waste heat from a steam turbine 81(1991)321

J.H. Tay, S.C. Low and S. Jeyaseelan
Vacuum desalination for water purification using waste heat 106(1996)131

Lowes F.

R. Starmer and F. Lowes
Nuclear single-purpose multi-stage-flash with vapour recompression 5 suppl.(1969)569

Lozier J.

J. Lozier, E. Oklejas and M. Silbernagel
The hydraulic turbochargerTM: A new type of device for the reduction of feed pump energy consumption in reverse osmosis systems 75(1989)71

P. Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg
A pilot study on groundwater natural organics removal by low-pressure membranes 102(1995)47

Lozier J. C.

C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty
Yuma desalting test facility: Foulant component study 47(1983)239

J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis
Selection, design and procurement of a demineralization system for a surface water treatment plant 88(1992)3

F.E. Sanders and J.C. Lozier
Pilot testing of reverse osmosis for salinity and organics control in a coastal supply source 103(1995)133

Lu Harry S.

J. Chen, H.S. Lu and L. Awerbuch
Seawater desalination to augment the water supply on Penghu Island, Taiwan 97(1994)319

Lu Juan

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Lu Xueren

Xue-Ren Lu, Cong-Jie Gao and Xiu-Zhen Sun
Reinforced and dry polysulfonamide membranes 54(1985)207

Gao Congjie, Lu Xueren and Sun Xiuzhen
Pore size control in the preparation of PAN membranes 62(1987)89

Lu Xueren and Gao Congjie
Characteristics of PFI composite reverse osmosis membrane 62(1987)203

Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie
Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes 62(1987)353

Gao Congjie, Lu Xueren and Bao Zhiguo
Polysulfone amide (PSA) asymmetric reverse osmosis membrane 83(1991)271

Xueren Lu and Congjie Gao
Research on polyethersulfone, polyarylsulfone and polyetheretherketone with cardo membranes 96(1994)155

Lucas M.

M. Lucas and S. Hessemans
Advantages of the ejectocompression process in sea water desalination 38(1981)57

M. Lucas and B. Tabourier
The mechanical vapor compression process applied to seawater desalination: A 1,500 ton/day unit installed in the nuclear power plant of Flamanville, France 52(1985)123

M. Lucas and F. Murat
Desalination by mechanical vapour compression. Operational results after one year operation of the Flamanville unit. Comparison with other desalination processes by evaporation 55(1985)33

Lucas R.

J.-J. Libert, A. Maurel and R. Lucas
Desalination and the environment (in French) 30(1979)427

Lucenti R.

I. Resini, G. Coliva, A. de Maio and R. Lucenti
4x6 MIGPD plus lxl MIGPD (acid) plants. Two years' operation results 54(1985)377

R. Zannoni, I. Resini and R. Lucenti
Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature 66(1987)109

P. Zini, R. Zannoni and R. Lucenti
Improved antiscaling treatment for desalination plants 66(1987)285

Luck W. A. P.

W.A.P. Luck
Contributions to the desalination membrane mechanism by studies of interactions in aqueous solutions and in polymer hydration 62(1987)19

Ludlum R.

A. Seigworth, R. Ludlum and E. Reahl
Case study: Integrating membrane processes with evaporation to achieve economical zero liquid discharge at the Doswell Combined Cycle Facility 102(1995)81

Ludwig H.

H. Ludwig and M. Hetschel
Treatment of distillates and permeates from seawater desalination plant 58(1986)135

Ludwig L.

L. Ludwig
Reverse osmosis in the desalination of brackish water and sea water 36(1981)153

Lugg R.

J.D. Gregory, R. Lugg and B. Sanders
Revision of the national reclaimed water guidelines 106(1996)263

Lührs G.

K. Kneifel, G. Lührs and H. Wagner
Nitrate removal by electrodialysis for brewing water 68(1988)203

Lundstrom J. E.

J.E. Lundstrom
Water desalting by solar powered electrodialysis 31(1979)469

J.E. Lundstrom
Desalting sea water to less than 4 ppm by electrodialysis 32(1980)259

Luo Jian

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Luppino R. J.

R.J. Luppino and H.G. Spencer
Effects of surfactants on the hyperfiltration performance of dynamic membranes 41(1982)33

Lupu D. M.

D.M. Lupu
The dynamic of sea water desalting through zone-freezing 31 (1979)415

Lustig K.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Luteneske N. E.

D.J. Forgach, G.D. Rose and N.E. Luteneske
Characterization of composite membranes by their non-equilibrium thermodynamic transport parameters 80(1991)275

Luu C.A.

C.A. Luu
Improved chelators and sequestrants for Army Reverse Osmosis Water Purification Units (ROWPUs) 97(1994)165

Lyle I.G.

R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson
A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models 17(1975)313

Lyle J. D.

W.K. Hendershaw, J.D. Lyle and C.G. Harris, III
Indian River Plantation: The evolution, 16-year history and operating experience of the oldest reverse osmosis water treatment plant on Hutchinson Island (FL) 102(1995)225

Lyons C.R.

R.L. Riley, C.R. Lyons and U. Merten
Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes 8(1970)177

R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
Spiral-wound poly(ether/amide) thin-film composite membrane systems 19(1976)113

Ma Nianci

Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin
Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes 62(1987)315

Maa J.R.

J.R. Maa and K. Hickman
Direct condensation of steam on a modified oil coolant 10(1972)95

Maadhah A. G.

A.G. Maadhah and C.K. Wojcik
Performances study of water desalination methods in Saudi Arabia 39(1981)205

F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani
Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia 45(1983)345

F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin
Field trials of hybrid acid-additive treatment for control of scale in MSF plants 54(1985)307

Maalej A. Y.

A.Y. Maalej
Solar still performance 82(1991)207

Mabrook B.

B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib
Ground water resources in Fayoum area, Egypt 39(1981)295

B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib
Origin of subsurface water in Khartoum province, Sudan 39(1981)297

S. El-Sadek and B. Mabrouk
Tourism development and desalination systems: Comparative analysis of systems' suitability for coastal areas of the Red Sea and Gulf of Aqaba, Egypt 88(1992)161

B. Mabrook
Environmental impact of waste brine disposal of desalination plants, Red Sea, Egypt 97(1994)453

Mac-Veigh Alfós J.

J. Mac-Veigh Alfós
Desarrollo económico potencial de la zona sureste de Almería basado en la instalación de una planta desaladora de doblo uso 5 suppl.(1969)225

MacCormick T.

R. Butler and T. MacCormick
Opportunities for decentralized treatment, sewer mining and effluent re-use 106(1996)273

Mace B.

B. Mace
Design of compact, containerized desalination plants 76(1989)53

Maciver A.

T. Hodgkiess, A. Maciver and P.Y. Chong
Galvanic studies related to the use in desalination plant of corrosion-resistant materials 66(1987)147

MacLeod H.

J.J. Schoeman, I.J.M. Buys, I.B. Schutte and H. MacLeod
Pilot investigation on the treatment of fertilizer manufacturing process effluent using lime and electrodialysis reversal 70(1988)407

Macmillan C. D.

G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson
Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse 47(1983)305

Macoun R.

R.W. Schofield, A.G. Fane, C.J.D. Fell and R. Macoun
Factors affecting flux in membrane distillation 77(1990)279

Macpherson A. S.

B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis
An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin 13(1973)269

B.A. Bolto and A.S. MacPherson
An ion-exchange process with thermal regeneration. XI. The Ca/Na selectivity behavior of weakly acidic resins 21(1977)71

Madaeni S.S.

S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider
Aspects of microfiltration and reverse osmosis in municipal wastewater reuse 106(1996)25

Madani A. A.

H.F. Wiegandt, A. Madani and P. Harriott
Ice crystallization developments for the butane direct-contact process 67(1987)107

A.A. Madani and G.M. Zaki
Prospective of two small water producing units 73(1989)167

A.A. Madani and S.E. Aly
A combined RO/freezing system to reduce inland rejected brine 75(1989)241

A.A. Madani
Economics of desalination for three plant sizes 78(1990)187

A.A. Madani
Zero-discharge direct-contact freezing/solar evaporator desalination complex 85(1992)179

A.A. Madani
Analysis of a new combined desalination-power generation plant 105(1996)199

Maddagiri A.

L. Awerbuch, A. Maddagiri, F.E. Swart and A.N. Rogers
Coupling of a power plant with a low temperature multi-effect desalination plant 44(1983)177

Mader A.

J. Hapke and A. Mader
Design, construction and operation of a combined MSF/VTE-test evaporator 45(1983)35

Madhuri

Madhuri and G.N. Tiwari
Performance of solar still with intermittent flow of waste hot water in the basin 52(1985)345

G.N. Tiwari and Madhuri
Effect of water depth on daily yield of the still 61(1987)67

Madsen R. F.

R.F. Madsen and W.K. Nielsen
Ultrafiltration of bleach effluents as an example of waste-water treatment by ultrafjltration 24(1978)141

W.K. Nielsen, R.F. Madsen and O.J. Olsen
Experience with plate-and-frame ultrafiltration and hyperfiltration systems for desalination of water and purification of waste water 32(1980)309

W.K. Nielsen and R.F. Madsen
Use of thin-channel systems for ultrafiltration and hyperfiltration 34(1980)113

R.F. Madsen
Membrane technology as a tool to prevent dangers to human health by water-reuse 67(1987)381

R.F. Madsen
Optimization of fluid dynamics for maximum fouling prevention 70(1988)177

R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot
The proposal for the completely closed system in the Columbus Space Station 83(1991)123

Maeda T.

T. Maeda
Re-use of treated laboratory effluents by a treatment system incorporating the 'Sirotherm' desalination process 23(1977)161

Maeda Y.

M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya
Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures 80(1991)139

Maejima A.

S. Iso, S. Suizu and A. Maejima
The lethal effect of hypertonic solutions and avoidance of marine organisms in relation to the discharged brine from a desalination plant 97(1994)389

Maekawa K.

T. Uragami, K. Maekawa and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes 27(1978)9

Maga L.

P. Costa, G. Lodi, E. Arato, L. Maga, S. Arazzini and R. Borsani
Using a homogeneous model in simulation of sea water desalination condenser 65(1987)123

Magara Y.

K. Kawamura, K. Nishimura and Y. Magara
Coliphage rejection under ultramembrane filtration 106(1996)89

Magidson S. I.

D.B. Guy and S.I. Magidson
The line pressure reverse osmosis appliance industry 54(1985)127

Maguire J. B.

J.B. Maguire
Fresh water from the sea, a new process 67(1987)155

Mahajan S. P.

P.K. Tewari, R.K. Verma, M.P.S. Ramani and S.P. Mahajan
Studies on nucleate boiling of sodium chloride solutions at atmospheric and sub-atmospheric pressures 52(1985)335

Mahajan S. S.

S.S. Mahajan, M.B. Sabne, K.B. Gujar and N.D. Ghatge
Modification of cellulose acetate by propylene oxide 52(1985)327

Mahaut M.

H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut
Utilization of the new mineral UF membranes for making semi-hard cheeses 35(1980)243

Maheshwari G. P.

R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari
Cost-effectiveness of solar water production 71(1989)165

G.P. Maheshwari, M. Al-Ramadhan and M. Al-Abdulhadi
Energy requirement of water production in dual-purpose plants 101(1995)133

Mahieu C.

S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Stress corrosion of austenitic stainless steels in chloride environments (in French) 3(1967)118

G. Boisde, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Etude du comportement de divers matériaux dans l'eau de mer jusqu'à 150°C 5 suppl.(1969)895

Mahlab D.

D. Mahlab, N. Ben Yosef and G. Belfort
Concentration polarization profile for dissolved species in unstirred batch hyperfiltration (reverse osmosis). II. Transient case 24(1978)297

Mahoney J. R.

D. Elyanow, R.G. Parent and J.R. Mahoney
Parametric tests of an electrodialysis reversal (EDR) system with aliphatic anion membranes 38(1981)549

D. Elyanow and J. Mahoney
Desalination and concentration of flue gas scrubber effluents using the electrodialysis reversal process 67(1987)283

Mahony D. N.

H.G. Spencer, D.B. McClellan, N.D. Ellis, D.A. Jernigan and D.N. Mahony
Concentration and recovery dependence of hyperfiltration system rejection of electrolytes by ion exchange membranes 61(1987)17

Majerle R. J.

S.D.N. Freeman and R.J. Majerle
Silica fouling revisited 103(1995)113

Majewska-Nowak K.

K. Majewska-Nowak and T. Winnicki
Decolorization of dye solutions by continuous ultrafiltration 60(1986)59

K. Majewska-Nowak
Synthesis and properties of polysulfone membranes 71(1989)83

K. Majewska-Nowak, T. Winnicki and J. Wisniewski
Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents 71(1989)127

K. Majewska-Nowak, J. Wisniewski and T. Winnicki
Formation of UF rod-type membranes 78(1990)417

K. Majewska-Nowak, J. Wisniewski and T. Winnicki
Modification of the properties of rod-type membranes by varying typical parameters of the casting process for phase inversion membranes: A comparative study 89(1992)47

K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki
Capillary membranes for separation of dye particles 105(1996)91

K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki
Salt effect on the dye separation by hydrophilic membranes 108(1996)221

Makkawi B. A.

B.A. Kamaluddin, S. Khan and B. Makkawi-Ahmed
Selection of optimally matched cogeneration plants 93(1993)311

B. Makkawi-Ahmed and A. Damodaram
An approach to improving the effectiveness of a large-scale complex utility organization 93(1993)365

A.M. Shams El Din, S. Aziz and B. Makkawi
Electricity and water production in the Emirate of Abu Dhabi and its impact on the environment 97(1994)373

Makwana B. S.

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

Malato S.

P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato
Wastewater detoxification of organic and inorganic toxic compounds with solar collectors 108(1996)213

Malaxos P. J.

P.J. Malaxos and O.J. Morin
Surface water discharge of reverse osmosis concentrates 78(1990)27

Maldague P.

P. Maldague, C. Descamps, W. Debay, A. Paquet, W. Bongard and B. Cox
Production combinée d'électricité et d'eau dessalée a l'aide de réacteurs Vulcain et d'unités LTV: Aspects technico-économiques d'installations de moyenne puissance 5 suppl.(1969)463

Malek A.

A. Malek, M.N.A. Hawlader and J.C. Ho
Simplified Ohya-Sourirajan analysis for predicting permeator performance 91(1993)265

A. Malek, M.N.A. Hawlader and J.C. Ho
A lumped transport parameter approach in predicting B10 RO permeator performance 99(1994)19

A. Malek, M.N.A. Hawlader and J.C. Ho
Design and economics of RO seawater desalination 105(1996)245

Maletic J. T.

J.T. Maletic, M.S. Sachs and E.S. Krous
Desalting saline irrigation-water supplies for agriculture. A case study — Lower Colorado River Basin, USA 5 suppl.(1969)207

Malewar C. G.

A.S. Bal, C.G. Malewar and A.N. Vaidya
Development of non-cellulosic membranes for wastewater treatment 83(1991)325

Malhotra R. P.

K.-H. Geigl and R.P. Malhotra
Glass fiber reinforced plastic applications for corrosive environments in desalination- and power plants, and for water treatment 44(1983)307

Malik A.

S. Ebrahim and A. Malik
Pretreatment of surface seawater feed at DROP 63(1987)95

S. Ebrahim and A. Malik
Membrane fouling and cleaning at DROP 66(1987)201

Malik A. A.

A.M. S. Al-Adsani, A.B. Hasan and A A. Malik
Testing of three different types of reverse osmosis membranes at the Kuwait Water Resources Development Centre 22(1977)271

Malik A. L. A.

J. Kaschemekat, W. Hilgendorff, K.W. Böddeker, A.M. Hassan and A.L.A. Malik
Two-stage reverse osmosis seawater desalination 46(1983)151

A.L.A. Malik, K.M. Mousa, N.G. Younan and B.J.R. Rao
Performance evaluation of three different seawater RO membranes at DROP in Kuwait 63(1987)163

A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait 75(1989)341

Malik A. U.

A.M. Hassan and A.U. Malik
Corrosion resistant materials for seawater RO plants 74(1989)157

A.U. Malik, P.C. Mayan Kutty, I.N. Andijani and S.A. Al-Fozan
Materials performance and failure evaluation in SWCC MSF plants 97(1994)171

A.U. Malik, N.A. Siddiqi and I.N. Andijani
Corrosion behavior of some highly alloyed stainless steels in seawater 97(1994)189

A.U. Malik and S.A. Al-Fozan
Localized corrosion of AISI 316L S.S in Arabian Gulf seawater 97(1994)199

A.U. Malik, T.L. Prakash and I. Andijani
Failure evaluation of desalination plants-some case studies 105(1996)283

Malissen M.

F. Dutheil and M. Malissen
Aperçu sur le marché de l'eau dessalée en France pour de petites unités 5 suppl.(1969)277

Malley N.

N. Malley and D.L. Henry
Advance in water quality monitoring and the use of firefly luciferine/luciferase/ATP bioassay 39(1981)521

Malmgren-Hansen B.

T.S. Sørensen, J.B. Jensen and B. Malmgren-Hansen
Electromotive force and impedance studies of cellulose acetate membranes: Evidence for two binding sites for divalent cations and for an alveolar structure of the skin layer 80(1991)293

Maloy J. R.

J.R. Maloy
Potential future roles for large-scale demineralization in South Florida 30(1979)39

Mandersloot W. G. B.

W.G.B. Mandersloot and R.E. Hicks
Leakage currents in electrodialytic desalting and brine production 1(1966)178

Mandil M. A.

M.A. Mandil and E.E. Abdel-Ghafour
Optimization of multi-stage-flash evaporation plants 5 suppl.(1969)507

M.A. Mandil, S.H. Eissa, A.O. Farag, A. El-Nikhely, F. Abdel Salam and A.M. Al-Taweel
Reciprocating plate reactors for water reuse 47(1983)275

Mandra V.

V. Gadani, R. Irwin and V. Mandra
Ultrafiltration as a tertiary treatment: Joint research program on membranes 106(1996)47

Mangiaracina L.

E. Cardona, S. Culotta, L. Mangiaracina and R. Terranova
Multi-flash desalination and cogeneration to solve the water supply problems in southeastern Sicily 106(1996)121

Mangood A.H.

S.K. Hamdona, S.M. Hamza and A.H. Mangood
Effect of some amino acids on the rate of dissolution of calcite crystals in aqueous systems 101(1995)263

Mani K. N.

K.N. Mani, F.P. Chlanda and C.H. Byszewski
Aquatech membrane technology for recovery of acid/base values from salt streams 68(1988)149

Manjarrez R.

R. Manjarrez and I.G. de Cosío
Desalination of agricultural drains in Mexicali, B.C. (in Spanish) 19(1976)499

R. Manjarrez and M. Galván
Solar multistage flash evaporation (SMSF) as a solar energy application on desalination processes. Description of one demonstration project 31(1979)545

R. Manjarrez
Desalination in Mexico 39(1981)335

Mannik E.

J.P. Gerofi, G.G. Fenton and E. Mannik
Solar distillation: The solar-driven case 39(1981)83

Manolov S.

V. Mavrov, I. Petrova, K. Davarsky and S. Manolov
Studies of the UF-25-PAN membrane characteristics in the complexing-UF process of Cu, Ni, and Co with polyvinylalcohol 83(1991)289

Manor S.

A. Ophir and S. Manor
The Curacao KAE-LT-MED and auxiliary steam turbine project: a model for dual purpose MSF plants replacement 66(1987)33

Manudhane A.

A.J. Barduhn and A. Manudhane
Temperatures required for eutectic freezing of natural waters 28(1979)233

Manwell J.F.

J.F. Manwell and J.G. McGowan
Recent renewable energy driven desalination system research and development in North America 94(1994)229

Maoz Y.

O. Kedem and Y. Maoz
Ion conducting spacer for improved electrodialysis 19(1976)465

O. Kedem, G. Tanny and Y. Maoz
A simple electrodialysis stack 24(1978)313

Mappelli P.

P. Mappelli, M. Santori, A. Chiolle and G. Gianotti
Membrane processes used for the treatment of industrial effluents 24(1978)155

G. Boari, C. Carrieri, P. Mappelli and M. Santori
Reverse osmosis pilot plants performance in brackish water desalination 24(1978)341

Marcandalli B.

B. Marcandalli, E. Selli, R. Tacchi, I.R. Bellobono and G. Leidi
A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients 51(1984)113

Marchée W. G. J.

M.P.C. Weijnen, W.G.J. Marchée and G.M. van Rosmalen
A quantification of the effectiveness of an inhibitor on the growth process of a scalant 47(1983)81

Marcinkowsky A. E.

K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor
Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (l) 1(1966)225

Mariñas B.

D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas
Desalination of municipal wastewater for horticultural reuse: Process description and evaluation 103(1995)1

Mariñas B. J.

B.J. Mariñas and R.E. Selleck
Desalination of agricultural drainage return water. Part II: Analysis of the performance of a 13,000 GDP RO unit 61(1987)263

Marinos-Kouris D.

E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris
Modeling of calcium sulphate fouling of reverse osmosis membranes 72(1989)293

E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris
Crystallization of calcium sulfate on reverse osmosis membranes 79(1990)47

K. Papafotiou, D. Assimacopoulos and D. Marinos-Kouris
A knowledge based system for the design of RO desalination plants 82(1991)131

N.G. Voros, Z.B. Maroulis and D. Marinos-Kouris
Salt and water permeability in reverse osmosis membranes 104(1996)141

Marinov M.

S. Velikova, V. Mavrov and M. Marinov
Characterization of the reverse osmosis membranes CA 80 and CA 95 by transport coefficients 91(1993)293

Mariy A. H.

M.M. Hilal, M.A. Marwan and A.H. Mariy
Experimental verification of interstage sluice gate design equations 61(1987)7

E.E. Khalil, A.H. Mariy and M. Marwan
Potable water technology transfer and assessment in Egypt 64(1987)217

Markin V.S.

A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov
Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes 104(1996)113

Marks G.

B. Watson, G. Marks, E. Gabbrielli and L. Chapple
Design and operation of a 5 ml/d RO desalination plant in arid Australia 96(1994)369

Maron-Moalem D.

D. Maron-Moalem, S. Sideman and A.E. Dukler
Dripping characteristics in a horizontal tube film evaporator 27(1978)117

Maroulis Z. B.

E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris
Modeling of calcium sulphate fouling of reverse osmosis membranes 72(1989)293

E. Fountoukidis, Z.B. Maroulis and D. Marinos-Kouris
Crystallization of calcium sulfate on reverse osmosis membranes 79(1990)47

N.G. Voros, Z.B. Maroulis and D. Marinos-Kouris
Salt and water permeability in reverse osmosis membranes 104(1996)141

C.T. Kiranoudis, N.G. Voros and Z.B. Maroulis
Wind energy exploitation for reverse osmosis desalination plants 109(1997)195

Marquardt K.

K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel
Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant 44(1983)61

K. Marquardt, R. Nagel and H. Seeger
Seawater desalination by reverse osmosis 46(1983)135

K. Marquardt
Flocculation, precipitation, sedimentation and flotation for use as pretreatment stages for brackish water and seawater in desalination plants 52(1984)43

K. Marquardt and R. Nagel
Demonstration plant for seawater desalination by reverse osmosis (RO-2 hollow fibre module line) 60(1986)25

Marques P.A.S.S.

P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato
Wastewater detoxification of organic and inorganic toxic compounds with solar collectors 108(1996)213

Marra C.

R. Passino, C. Marra, A. Rozzi and G. Tiravanti
Performance evaluation and process design of an electrodialysis plant by overpotential measurements 41(1982)181

Marrelli L.

D. Barba, F. Evangelista, G. Jonsson and L. Marrelli
An analytical method for design of electrodialysis stacks operated at high concentrations 71(1989)137

D. Barba, F. Evangelista and L. Marrelli
A general thermodynamic tool for predicting salting coefficients of non-electrolytes in brackish or seawater 71(1989)289

Marshall A.D.

A.D. Marshall, P.A. Munro and G. Trägårdh
The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review 91(1993)65

Marshall W.L.

L.B. Yeatts, P.M. Lantz and W.L. Marshall
Calcium sulfate solubility in brackish water concentrates and applications to reverse osmosis processes: Polyphosphate additives 15(1974)177

Martin C. J.

C.J. Martin
Remediation of groundwater contaminated by olive processing waste 88(1992)253

C.J. Martin, E.O. Kartinen, Jr. and J. Condon
Examination of processes for multiple contaminant removal from groundwater 102(1995)35

E.O. Kartinen, Jr. and C.J. Martin
An overview of arsenic removal processes 103(1995)79

Martindale A.

M. Landau and A. Martindale
Assessment of crystalliser designs for a butane freeze desalination process 3(1967)318

Martynova O. I.

O.I. Martynova, L.G. Vasina and S.A. Pozdniakova
Dissociation constants of certain scale forming salts 15(1974)259

O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
Evaluation of thermal desalination plants water chemistry 47(1983)63

O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
Make-up water treatment at thermal power plants and multiple waste water reuse 47(1983)321

O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert
Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations 71(1989)337

O.I. Martynova, L.G. Vasina, A.V. Boglovsky and O.V. Gyseva
Alkaline scale formation restriction in desalination plants by means of antiscalant additives 83(1991)55

Marvaldi J.

G. Damy and J. Marvaldi
Some investigations on the possibility of using ocean thermal gradient (OTG) for seawater desalination 67(1987)197

Marwan M. A.

M.M. Hilal and M.A. Marwan
Design equations for a new set up of sluice gates to stabilize inter-scale brine flow 55(1985)139

M.M. Hilal, M.A. Marwan and A.H. Mariy
Experimental verification of interstage sluice gate design equations 61(1987)7

E.E. Khalil, A.H. Mariy and M. Marwan
Potable water technology transfer and assessment in Egypt 64(1987)217

M.A. Marwan
Short-cut method for estimating membrane number, product salinity and replacement ratio 94(1993)201

M.A. Marwan, N.H. Aly and M.S. Saadawy
Simple code for the estimation of scaling potential 101(1995)279

N.H. Aly and M.A. Marwan
Dynamic behavior of MSF desalination plants 101(1995)287

Marx B.

G. Belfort, G. Alexandrowicz and B. Marx
Artificial particulate fouling of hyperfiltration membranes 19(1976)127

G. Belfort and B. Marx
Artificial particulate fouling of hyperfiltration membranes. II. Analysis and protection from fouling 28(1979)13

Mas L. J.

L.J. Mas, P.M. Pierrard, P.A. Prax and J.C. Sohm
Behaviour of an electrodialysis unit cell 7(1970)285

Masaki Y.

T. Sawa, M. Kubota, S. Takahashi and Y. Masaki
Development of water re-use treatment system for municipal wastewater 32(1980)373

Marrelli

K. Urano, Y. Masaki and M. Kawabata
Electric resistance of ion-exchange membranes in dilute solutions 58(1986)171

K. Urano, Y. Masaki and Y. Naito
Increase in electric resistance of ion exchange membranes by fouling with naphthalenemonosulfonate 58(1986)177

Masarczyk J.

J. Masarczyk, C.-H. Hansson, R.L. Solomon and B. Hallmans
Desalination plant at KWK Debiensko, Poland: Advanced mine drainage water treatment engineering for zero discharge 75(1989)259

Mascarello J.

J. Mascarello
Inexpensive distillation of natural water in power plants (in French) 3(1967)359

Maschlanka J.

F. Gebhardt and J. Maschlanka
Possible applications of fuzzy controllers for chemical phosphate elimination 96(1994)89

Mashiko Y.

Y. Mashiko, Y. Kurokawa and S. Saito
Initial flux decline of the cellulose acetate butylate membranes with time under RO performance 48(1983)147

Y. Kurokawa, Y. Mashiko and S. Saito
RO transport properties of several electrolytes through homogeneous CA membrane 58(1986)19

Maslehuddin M.

H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin
Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf 78(1990)327

Massarani A.

A. Massarani
Field experiences on large MSF desalination plants designed to operate with two different top brine temperatures 66(1987)43

A. Massarani and F. Fusetti
Some design and monitoring criteria for large/medium MSF plants 92(1993)377

Masson M.

M. Masson and G. Deans
Membrane filtration and reverse osmosis purification of sewage: Secondary effluent for re-use at Eraring Power Station 106(1996)11

Masters E.F.

E.F. Masters, H.A. Matthews and F.K. Orde
The selection of nuclear power and desalination plants for augmenting existing water reserves 5 suppl.(1969)441

Masuda H.

H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis 25(1978)89

C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami
Studies on the treatment of gold plating rinse by reverse osmosis 27(1978)261

M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato
Recovery of gold from the plating rinse by adsorption with nylon fibers 29(1979)275

Masumi S.

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

Masuyama Y.

K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida
Light gauge welded titanium tubes for seawater desalination plants 73(1989)429

Masuzaki M.

T. Kawanishi, S. Matsumoto, Y. Horii and M. Masuzaki
Desalination for landfill leachates containing condensed inorganic salts 97(1994)415

Matar Y.

Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar
Desalting saline ground water for agriculture 19(1976)175

Matejka Z.

Z. Matejka and J. Eliasek
Liquid-side diffusion controlled cation exchange kinetics. Comparison between macroporous and gelular resins 42(1982)315

T. Herrera, Z. Matejka and J. Eliasek
Cation exchange kinetics on carboxylic acid resins in a multicomponent system H—Me+—Me2+ 48(1983)161

Matera F.

V. Calabrò, E. Drioli and F. Matera
Membrane distillation and wastewater treatment 83(1991)209

Mathew K.

R. Robinson, G. Ho and K. Mathew
Development of a reliable low-cost reverse osmosis desalination unit for remote communities 86(1992)9

Matson S. L.

A.S. Michaels and S.L. Matson
Membranes in biotechnology: State of the art 53(1985)231

Matsubayashi M.

M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori
Development of flashing flow model for box type orifice 65(1987)57

Matsuda M.

M. Matsuda, C. Kamizawa and H. Yoshitome
On the conditions of fabrication of tubular cellulose acetate membranes 27(1978)41

C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami
Studies on the treatment of gold plating rinse by reverse osmosis 27(1978)261

M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato
Recovery of gold from the plating rinse by adsorption with nylon fibers 29(1979)275

M. Matsuda and C. Kamizawa
Precise measurement of membrane constants of cellulose acetate membranes by direct osmosis tests 49(1984)367

Matsuda T.

T. Matsuda, S. Ogama and Y. Onoue
Demineralization of sea water by electrodialysis 3(1967)295

Matsuhara T.

N. Noguchi, S. Sato, T. Imatake, T. Matsuhara and T. Hamada
Prevention of scale and corrosion on flash evaporators 5 suppl.(1969)879

Matsui H.

T. Ukai, Y. Nimura, K. Hamada and H. Matsui
Development of one pass sea water reverse osmosis module "Hollosep" 32(1980)169

H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai
Single-pass desalination of high salinity seawater with reverse osmosis 38(1981)441

Matsui K.

Y. Kamiyama, N. Yoshioka, K. Matsui and K. Nakagome
New thin-film composite reverse osmosis membranes and spiral wound modules 51(1984)79-92, Err. 51(1984)336

T. Misaki and K. Matsui
Night soil treatment system equipped with ultrafiltration 106(1996)63

Matsui M.

K. Nita, K. Numata, S. Gotoh and M. Matsui
Application of a chlorine-resistant polyamide RO membrane with a hollow fiber configuration 96(1994)33

Matsui Y.

A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis 96(1994)451

Matsuka N.

N. Matsuka, Y. Nakagawa, M. Kurihara and T. Tonomura
Reaction kinetics of sodium bisulfite and dissolved oxygen in seawater and their applications to seawater reverse osmosis 51(1984)163

Matsumoto H.

H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai
Single-pass desalination of high salinity seawater with reverse osmosis 38(1981)441

Matsumoto K.

M. Kishi, K. Matsumoto, Y. Takeuchi and K. Hattori
Development of flow model for weir type orifice 55(1985)481

J. Zhou, H. Ohya and K. Matsumoto
Several engineering equations in the design of reverse osmosis plants 80(1991)15

Matsumoto M. R.

W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee
Flow patterns in radial flow hollow fiber reverse osmosis systems 68(1988)11

Matsumoto N.

K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada
Electrodialysis plant at Hatsushima 21(1977)45

Matsumoto S.

T. Kawanishi, S. Matsumoto, Y. Horii and M. Masuzaki
Desalination for landfill leachates containing condensed inorganic salts 97(1994)415

Matsumura T.

T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino
Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis 32(1980)93

H. Tsuge, S. Suda and T. Matsumura
Pretreatment of seawater RO feed by means of coagulation-filtration 38(1981)425

Matsuura T.

T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan
Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications 32(1980)181

T. Matsuura, Y. Taketani and S. Sourirajan
A physicochemical approach for the choice of polymeric membrane materials for water desalination by reverse osmosis 38(1981)319

Y. Taketani, T. Matsuura and S. Sourirajan
Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface 46(1983)455

Shi Qiu Zhang, A.E. Fouda, T. Matsuura and Kam Chan
Some experimental results and design calculations for reverse osmosis concentration of green tea juice 80(1991)211

Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and T. Matsuura
Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes 85(1991)1

A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura
Membrane separation of low volatile organic compounds by pervaporation and vapor permeation 90(1993)209

K. Lang, S. Sourirajan, T. Matsuura and G. Chowdhury
A study on the preparation of polyvinyl alcohol thin-film composite membranes and reverse osmosis testing 104(1996)185

Matsuzaki H.

O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike
Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale 22(1977)515

Matthews H. A.

E.F. Masters, H.A. Matthews and F.K. Orde
The selection of nuclear power and desalination plants for augmenting existing water reserves 5 suppl.(1969)441

Matthews J.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

Matthiasson E.

E. Matthiasson and B. Sivik
Concentration polarization and fouling 35(1980)59

Mattiasson B.

B. Hägerdal, M. López-Leiva and B. Mattiasson
Membrane technology applied to bioconversion of macromolecular substrates and upgrading of products. A model study on ethanol production from cellulose 35(1980)365

Mattson M.

R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen
Parametric study on seawater reverse osmosis desalting plants 46(1983)3

Mattson M.E.

M.E. Mattson
Significant developments in membrane desalination — 1979 28(1979)207

M.E. Mattson and M. Lew
Recent advances in reverse osmosis and electrodialysis membrane desalting technology 41(1982)1

Matulli S.

G.C. Sarti, C. Gostoli and S. Matulli
Low energy cost desalination processes using hydrophobic membranes 56(1985)277

Matz R.

R. Matz and E.M. Feist
Application of solar energy to the solution of some problems of electrodialysis 2(1967)116

R. Matz
The structure of cellulose acetate membranes. I. The development of porous structures in anisotropic membranes 10(1972)1

R. Matz
The structure of cellulose acetate membranes. II. The physical and transport characteristics of the porous layer of anisotropic membranes 11(1972)207

R. Matz
A surface phenomenon occurring during the preparation of cellulose acetate reverse osmosis membranes 12(1973)273

R. Matz, E. Zisner and G. Herscovici
Pressure driven membrane processes in the treatment of industrial effluents 24(1978)113

R. Matz and Y. Meitlis
Design and operating parameters for tubular ultrafiltration membrane modules 24(1978)281

R. Matz and U. Fisher
A comparison of the relative economics of sea water desalination by vapour compression and reverse osmosis for small to medium capacity plants 36(1981)137

R. Matz and Z. Zimerman
Low-temperature vapour compression and multi-effect distillation of seawater. Effects of design on operation and economics 52(1985)201

Maubois J.-L.

H. Goudédranche, J.-L. Maubois, P. Ducruet and M. Mahaut
Utilization of the new mineral UF membranes for making semi-hard cheeses 35(1980)243

Maurath K.

R. Al-Assar, H.E. Hömig and K. Maurath
Cost of producing power and water in a combined power station and seawater desalination plant 40(1982)311

Maurel A.

J.-J. Libert, A. Maurel and R. Lucas
Desalination and the environment (in French) 30(1979)427

A. Maurel
Desalination using new energy sources (in French) 31(1979)489

J.J. Libert and A. Maurel
Desalination and renewable energies: a few recent developments 39(1981)363

Mavrov V.

I. Dobrevsky, V. Mavrov and B. Bonev
Effect of recovery on desalination of the Black Sea water by reverse osmosis 41(1982)209

I. Dobrevsky, V. Mavrov and B. Bonev
Reverse osmosis as a step for make-up demineralised water for power stations 46(1983)157

I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova
Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production 67(1987)163

V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev
Condensate re-use by ultrafiltration oil removal 83(1991)195

V. Mavrov and S. Velikova
Transport characteristics of the reverse osmosis thin film composite membranes 83(1991)279

V. Mavrov, I. Petrova, K. Davarsky and S. Manolov
Studies of the UF-25-PAN membrane characteristics in the complexing-UF process of Cu, Ni, and Co with polyvinylalcohol 83(1991)289

V. Mavrov, I. Dobrevsky, B. Bonev and N. Petkov
Effect of magnesium hydroxide (or hydrated MgO) formed under alkaline conditions on brackish water pretreatment for reverve osmosis 85(1992)335

V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright
Concentration polarization and water splitting at electrodialysis membranes 91(1993)225

S. Velikova, V. Mavrov and M. Marinov
Characterization of the reverse osmosis membranes CA 80 and CA 95 by transport coefficients 91(1993)293

S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta
Comparative evaluation of industrial membranes: Correlation between transport and operational parameters 94(1993)1

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept 108(1996)159

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 2: Improved feed water pretreatment 110(1997)65

Mavrova Z.

V. Mavrov, Z. Mavrova, V. Georgieva and B. Bonev
Condensate re-use by ultrafiltration oil removal 83(1991)195

Mawer P. A.

P.A. Mawer
Economics of multi-stage distillation in relation to conventional water supply 2(1967)99

P.A. Mawer and M.J. Burley
The conjunctive use of desalination and conventional surface water resources 4(1968)141

P.A. Mawer
United Nations survey of desalination-plant operation 5 suppl.(1969)145

P.A. Mawer and T. Wyatt
Planning and operational studies in the integrated use of desalination. Case studies for Cyprus and Jersey 13(1973)333

Maximovskaya R.I.

S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov
Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis 104(1996)107

May S. C.

L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers
Geothermal energy recovery process 19(1976)325

S.C. May, E.H. Houle, S.A. Reed and W.F. Savage
Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant 30(1979)605

R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen
Parametric study on seawater reverse osmosis desalting plants 46(1983)3

L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast
Hybrid desalting systems 76(1989)189

Mayan Kutty P. C.

P.C. Mayankutty, A.A. Nomani and T.S. Thankachan
Monitoring of organic compounds in feed and product water samples from MSF plants in the eastern coast of Saudi Arabia 74(1989)243

A.U. Malik, P.C. Mayan Kutty, I.N. Andijani and S.A. Al-Fozan
Materials performance and failure evaluation in SWCC MSF plants 97(1994)171

P.C. Mayan Kutty, A.A. Nomani and T.S. Thankachan
Carry over of some high molecular weight organics from seawater to MSF distillates 97(1994)401

K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty
Studies on the vaporization mechanisms of organic pollutants in an evaporator 103(1995)177

Mayinger F.

H.T. El-Dessouky and F. Mayinger
New geometry for MSF units 31(1979)45

R. Greffrath and F. Mayinger
A control system for multi-stage flash desalination plants 31(1979)71

Mazo A.A.

V.D. Grebenyuk, A.A. Mazo and V.M. Linkov
New ecological problems of desalting and water re-use 105(1996)175

Mazzei Lalatta I.

C. Dejak, O. Devoto, I. Mazzei Lalatta and G. Cocco
Precision measurements of the colligative properties of solutions of strong electrolytes and of sea and brackish water: theoretical calculation of the osmotic coefficient 10(1972)263

Mazzotti M.

M. Rosso, A. Beltramini, M. Mazzotti, and M. Morbidelli
Modeling multistage flash desalination plants 108(1996)365

McBride R.

R. McBride, R. Morris and W. Hanbury
Wind power — A reliable source for desalination 67(1987)559

McCarthy A.M.

G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza
Vapor-liquid equilibrium in capillary distillation 81(1991)161

McCartney W. S.

W.T. Hanbury and W. McCartney
Nucleation in the flash boiling of sea water 14(1974)217

W.T. Hanbury, W.S. McCartney, J. Cunningham and T. Hodgkiess
Twelve years of postgraduate education in desalination 30(1979)449

McClellan D. B.

H.G. Spencer, D.K. Todd and D.B. McClellan
Properties of dynamically-formed polyblend membranes 49(1984)193

H.G. Spencer, D.B. McClellan, N.D. Ellis, D.A. Jernigan and D.N. Mahony
Concentration and recovery dependence of hyperfiltration system rejection of electrolytes by ion exchange membranes 61(1987)17

McCoy W. H.

W.S. Gillam and W.H. McCoy
Desalination research 2(1967)13

McCray S. B.

J. Glater and S. McCray
Changes in water and salt transport during hydrolysis of cellulose acetate reverse osmosis membranes 46(1983)389

J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan
Reverse osmosis membrane sensitivity to ozone and halogen disinfectants 48(1983)1

McCutchan J.W.

J.S. Johnson and J.W. McCutchan
Concentration polarization in the reverse osmosis desalination of sea water 10(1972)147

J.W. McCutchan and V. Goel
Systems analysis of a multi-stage tubular module reverse osmosis plant for sea water desalination 14(1974)57

M.C. Chan and J.W. McCutchan
Specification of cellulose acetate to be used in semipermeable membranes 17(1975)353

J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto
Reclamation of irrigation field drainage water 19(1976)153

C.K. Wojcik, J.G. Lopez and J.W. McCutchan
Application of reverse osmosis to reclamation of municipal wastewaters 32(1980)353

J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan
Reverse osmosis membrane sensitivity to ozone and halogen disinfectants 48(1983)1

McDonald L. A.

E. Glueckauf, L.A. McDonald and P.J. Russell
Sea water softening by osmosis through desalinating membranes 3(1967)155

E. Furby, E. Glueckauf and L.A. McDonald
The solubility of calcium sulphate in sodium chloride and sea salt solutions 4(1968)264

McDonogh R. M.

R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell
Flux and rejection in the ultrafiltration of colloids 70(1988)251

R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel
Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins 79(1990)217

McDougall D. S.

J.S. Glen and D.S. McDougall
Desalination using the Canadian SLOWPOKE energy system 64(1987)183

McElhinney K. D.

H.C. Valcour, Jr. and K.D. McElhinney
Desalting 36,000 ppm well water with electrodialysis: a 5-year report 38(1981)529

McFarlane S.

D. Christova-Boal, R.E. Eden and S. McFarlane
An investigation into greywater reuse for urban residential properties 106(1996)391

McFarren R.D.

W.A. Williams, Jr., J.O. Roberts and R.D. McFarren
Role of nuclear energy in desalination - A review of the United States Atomic Energy Commission's desalination development program, problem areas, and potential 5 suppl.(1969)51

McGarvey F. X.

F.X. McGarvey and S.A. Fischer
Measurements and control in ion exchange installations 59(1986)403

McGlone K.J.

K.J. McGlone, E.G. Darton, D.J. Langdown and A. Rahman
Factors affecting the design of a pre-treatment system for a 1,200 m3/d RO plant in Riyadh, Saudia Arabia with an iron-rich, 60oC feed water 96(1994)397

McGowan J.G.

J.F. Manwell and J.G. McGowan
Recent renewable energy driven desalination system research and development in North America 94(1994)229

McGrath J. E.

K.E. Kinzer, D.R. Lloyd, J.P. Wightman and J.E. McGrath
Asymmetric membrane preparation from nonsolvent casting systems 46(1983)327

McGrath L.

C. Bates, R.P. Gladwin and L. McGrath
Desalination in pilot scale column crystallizers 21(1977)83

N. Akhtar, L. McGrath and P.D. Roberts
Dynamic modelling and partial simulation of a pilot scale column crystallizer 28(1979)1

G.T. Arulampalam, C. Bates, L.F. Khaw and L. McGrath
Investigation of purification mechanism in a column crystalliser operating under total reflux and continuous conditions 36(1981)87

McGregor I.D.

I.D. McGregor and H. Moore
Improvement in distiller production and performance ratio after modification of the stage venting system 93(1993)159

I.D. McGregor and A. Barton
Factors affecting the useful economic life of large MSF distillers 93(1993)387

McHaney S. X.

S.X. McHaney
Satellite wastewater reclamation plants: How to get what you bargain for 88(1992)215

McIlhenny W. F.

T. Miwa, D.R. Jordan and W.F. McIlhenny
Seawater desalting by electrodialysis 20(1977)375

W.F. McIlhenny
Measurement and control of feed water and product water composition 59(1986)445

McIntosh G.

G. McIntosh
Reuse of urban wastewaters in developing fringe areas of Metropolitan Adelaide 106(1996)355

McKee M. E.

R.G. Sudak and M.E. McKee
Low pressure composite membrane 22(1977)235

McKinney Jr. R.

R. McKinney, Jr.
An experimental approach to the preparation of hollow fiber membranes 62(1987)37

McLagan G. P.

T.O. Al-Kasabi, S.I. Abdel-Khalik, T.E. Dix, R. Hagenson, A.A. Husseiny, G.P. McLagan, C. Laporta and J. Matthews
Design of a commercial solar-powered greenhouse 39(1981)53

McLellan F.

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson
Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent 101(1995)155

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy
Membrane performance with plug screw feeder pressate: operating conditions and membrane properties 105(1996)229

McMillan D.

R. Kadaj, D. McMillan and J. Losch
A low pressure reverse osmosis facility for Marco Island (FL) 102(1995)25

McMillan P.W.

S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
Sea water desalination using glass hollow fibre membranes 14(1974)209

McRae W. A.

W.A. McRae, W. Glass, F.B. Leitz, J.T. Clarke and S.S. Alexander
Recent developments in electrodialysis at elevated temperatures 4(1968)236

F.B. Leitz and W.A. McRae
An engineering analysis of piezodialysis 10(1972)293

F.B. Leitz, M.A. Accomazzo and W.A. McRae
High temperature electrodialysis 14(1974)33

W.A. McRae, E.J. Parsi and G.C. Ganzi
Fresh water from the sea: a 380 cubic meter per day high temperature electrodialysis plant 23(1977)401

Mehandjiev M. R.

M.R. Mehandjiev
Membrane desalination and water re-use technologies improvement by thermodynamics of accumulation processes regulatories 83(1991)245

Mehta D. J.

D.J. Mehta, V.P. Pandya and A.V. Rao
Reverse osmosis relevant to India 20(1977)403

D.J. Mehta, A.V. Rao and K.P. Govindan
Water desalination — A perspective for membrane processes in India 30(1979)325

Mehta D.V.

E.A. Meinecke and D.V. Mehta
Influence of some processing variables on the properties of cellulose acetate membranes. I. Ultimate properties and birefringence 10(1972)341

D.V. Mehta and E.A. Meinecke
Influence of some processing variables on the properties of cellulose acelate membranes. II. Desalination characteristics of unstretched and stretched membranes 10(1972)353

D.V. Mehta and E.A. Meinecke
Influence of some processing variables on the properties of cellulose acetate membranes. III. Temperature dependence of the desalination performance of membranes plasticized by various plasticizers 10(1972)369

Mehta M. H.

M.M. Tare, M.K. Gada, M.A. Siddiqui and M.H. Mehta
Economics of desalination in water resource management — A comparison of alternative water resources for arid/semi arid zones in developing countries 81(1991)57

S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta
Comparative evaluation of industrial membranes: Correlation between transport and operational parameters 94(1993)1

Meijer J. A. M.

J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel
Scale inhibition of calcium sulfate by a fluidized bed 34(1980)217

J.A.M. Meijer
Prevention of calcium sulfate scale deposition by a fluidized bed 47(1983)3

J.A.M. Meijer and G.M. van Rosmalen
Solubilities and supersaturations of calcium sulfate and its hydrates in seawater 51(1984)255

J.A.M. Meijer
Inhibition of calcium sulfate depositions by a fluidized bed 52(1984)25

J.A.M. Meijer, J.A. Wesselingh, A. Clobus and M.L.A. Goossens
Impacts against the wall of a scaled-up fluidized bed 58(1986)1

Meinecke E.A.

E.A. Meinecke and D.V. Mehta
Influence of some processing variables on the properties of cellulose acetate membranes. I. Ultimate properties and birefringence 10(1972)341

D.V. Mehta and E.A. Meinecke
Influence of some processing variables on the properties of cellulose acelate membranes. II. Desalination characteristics of unstretched and stretched membranes 10(1972)353

D.V. Mehta and E.A. Meinecke
Influence of some processing variables on the properties of cellulose acetate membranes. III. Temperature dependence of the desalination performance of membranes plasticized by various plasticizers 10(1972)369

Meitlis Y.

R. Matz and Y. Meitlis
Design and operating parameters for tubular ultrafiltration membrane modules 24(1978)281

Mejorada J. S.

J.S. Mejorada and O.P. Siller
Construction of flash distillation units with structurally independent stages (in Spanish) 19(1976)269

Mekhemar S. S.

S.G. Serag-El-Din and S.S. Mekhemar
Significance of effects in a reverse osmosis desalination unit 51(1984)231

Melli T.

J.M. Montagna, N.J. Scenna and T. Melli
Some theoretical aspects in simulation of multiple stage desalination systems 81(1991)437

Mellis R.

R. Rautenbach and R. Mellis
Waste water treatment by a combination of bioreactor and nanofiltration 95(1994)171

R. Rautenbach and R. Mellis
Hybrid processes involving membranes for the treatment of highly organic/inorganic contaminated waste water 101(1995)105

Melnikov A.G.

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov
Production of quality drinking water with membranes 108(1996)167

Melvin C. D.

H.K. Plummer, Jr., C.D. Melvin and E. Eichen
Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy 15(1974)93

Mendes F.

P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato
Wastewater detoxification of organic and inorganic toxic compounds with solar collectors 108(1996)213

Mendia M.

E. Drioli, M. Mendia and R. Molinari
Membrane processes combined with enzymatic reactions: an experimental study 24(1978)193

D. Kuiper and M. Mendia
Conceptual design aspects of reverse osmosis 35(1980)273

Mengual J.I.

J.M. Ortiz de Zárate, L. Peña and J.I. Mengual
Characterization of membrane distillation membranes prepared by phase inversion 100(1995)139

M.P. Godino, L. Peña, C. Rincón and J.I. Mengual
Water production from brines by membrane distillation 108(1996)91

Menon K. S.

K.S. Menon and H.G. Spencer
Ion passages in the hyperfiltration of mixed co-ion electrolyte solutions by a membrane containing fixed charges 69(1988)115

K.S. Menon and H.G. Spencer
Modeling multiion transport in hyperfiltration membranes with fixed charges 80(1991)31

Menozzi G.N.

G. Nebbia and G.N. Menozzi
Early experiments on water desalination by freezing 5(1968)49

Merin U.

G.B. Tanny, D. Hauk and U. Merin
Biotechnical applications of a pleated crossflow microfiltration module 41(1982)299

Merli C.

G. Boari, C. Merli, R. Passino and G. Tiravanti
Silica transport through charged membranes 15(1974)3

G. Boari, L. Liberti, C. Merli and R. Passino
Exchange equilibria on anion resins 15(1974)145

G. Boari, C. Merli, G. Mossa and R. Passino
Study of the morphology and determination of the transport coefficients for reverse osmosis membranes 16(1975)271

Merli E.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

Merry A. J.

D. Pepper, A.C.J. Orchard and A.J. Merry
Concentration of tomato juice and other fruit juices by reverse osmosis 53(1985)157

Merten U.

R.L. Riley, U. Merten and J.O. Gardner
Replication electron microscopy of cellulose acetate osmotic membranes 1(1966)30

U. Merten
Desalination by pressure osmosis 1(1966)297

U. Merten, H.K. Lonsdale, R.L. Riley and K.D. Vos
Performance of cellulose acetate membranes in sea water desalination 3(1967)353

U. Merten
Representations of coupling in osmotic membranes 6(1969)293

R.L. Riley, C.R. Lyons and U. Merten
Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes 8(1970)177

Mesa A.A.

A.A. Mesa, C.M. Gómez and R.U. Azpitarte
Energy saving and desalination of water 108(1996)43

A.A. Mesa, C.M. Gómez and R.U. Azpitarte
Design of the maximum energy efficiency desalination plant (PAME) 108(1996)111

Meshalkin V. P.

V.V. Kafarov and V.P. Meshalkin
Automated design of optimum pipeline in chemical industry 66(1987)119

Messalem R.

R. Messalem, C. Forgacs and O. Kedem
New developments in polyethylene-based membranes 24(1978)93

Metayer M.

M. Metayer, C. Bourdillon and E. Selegny
Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off 13(1973)129

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Metwally A. M.

I.I. Kutbi, A.M. Metwally, Z.A. Sabri and A.A. Husseiny
Reliability of the Jeddah seawater RO desalination plant based upon operations experience 39(1981)179

Meyer R.E.

R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey
Rapid batch and continuous electroanalysis for the chloride ion 9(1971)333

R.E. Meyer, F.A. Posey and P.M. Lantz
An electrochemical method for monitoring the oxygen content of aqueous streams at the part-per-billion level 11(1972)329

Meyer-Blumenroth U.

R. Rautenbach and U. Meyer-Blumenroth
Module and process design for vapor permeation 77(1990)295

Miah M.R.

M.R. Miah
Chemical tests for proper unit operation of water purification plant by membrane and ion exchange techniques 93(1993)431

Miao F.

Fudu Miao, Xinpei Li and Yuanqi Zhang
The mathematical modeling of the removal of phenol with emulsified liquid membranes 56(1985)355

Micale G.

R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant 82(1991)337

Michaeli G.

G. Michaeli and O. Kedem
Tracer diffusion coefficients in water-tri-n -butylphosphate solutions 8(1970)359

Michaels A.S.

H. Strathmann and A.S. Michaels
Polymer-water interaction and its relation to reverse osmosis desalination efficiency 21(1977)195

A.S. Michaels
Membrane technology and biotechnology 35(1980)329

A.S. Michaels and S.L. Matson
Membranes in biotechnology: State of the art 53(1985)231

A.S. Michaels
Membranes, membrane processes, and their applications: Needs, unsolved problems, and challenges of the 1990's 77(1990)5

Michel A.

J. Huyghe, G. Barois, A. Michel and H. Mondin
Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel (in French) 4(1968)209

Michel J. W.

J.W. Michel
The agro-industrial complex 5 suppl.(1969)713

Michels T.

T. Michels and F. Murat
High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator 66(1987)69

T. Michels
Recent achievements of low temperature multiple effect desalination in the western areas of Abu Dhabi, UAE 93(1993)111

Mickley M.

J.E. Burke, M. Mickley, J. Truesdall and R.L. Hamilton
Usefulness of networking in membrane plant design and operation 102(1995)77

J. Truesdall, M. Mickley and R. Hamilton
Survey of membrane drinking water plant disposal methods 102(1995)93

Middle G.

G. Middle
Environmental requirements for the disposal of effluent from wastewater disposal systems 106(1996)323

Middleton E.

J.R. Humphries and E. Middleton
CANDESAL: A Canadian Nuclear Desalination System 99(1994)329

Miezis Y.

B. Sivik, M. Wahlgren and Y. Miezis
A rheological screening method for membrane modifying polymers 77(1990)181

Migliorini G.

L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi
Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems 31(1979)457

S. Arazzini, R. Borsani, G. Migliorini and P. Bozzini
Taranto desalination plant: A comparison between theoretical and actual pH values in a correct designed acid treatment plant 38(1981)185

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 44(1983)29

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 49(1984)1

D. Barba, S. Arazzini and G. Migliorini
Applied similarity criteria in the scale-up from existing to large MSF desalination plants 49(1984)1

S. Arazzini, R. Borsani, G. Migliorini and U. Zuboli
Economics of MSF plants: Influence of variations in the design parameters and use of different construction materials 52(1985)97

G. Migliorini, B. Fumagalli and S. Arazzini
Theoretical approach to MSF stages efficiency calculation 55(1985)185

Mika-Gibala A.

T. Winnicki, G. Blazejewska and A. Mika-Gibala
Piezodialytic transport across charge-mosaic membranes 32(1980)77

Mikulásek P.

P. Mikulásek and J. Cakl
Removal of industrial latex dispersions from waste waters using microporous alumina membranes 95(1994)211

Mikuni T.

S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant 66(1987)339

Millequant M.

I. Baudin, M. Millequant, A. Ricard and R. Audebert
Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment 86(1992)237

Miller E.F.

S.A. Bresler and E.F. Miller
A conceptual nuclear energy centre for the co-production of agricultural chemicals and desalted water to serve a pilot food factory 5 suppl.(1969)683

Miller G. A.

G.A. Miller and R.S. Pontek
Case study: Martin County, Florida. "A utility's experience developing a new reverse osmosis treatment system" 87(1992)249

Miller I.F.

M.N. Sarbolouki and I.F. Miller
On pore flow models for reverse osmosis desalination 12(1973)343

Miller J. F.

A.E. Austin, J.F. Miller, N.A. Richard and J.F. Kircher
Precipitation of calcium sulfate from sea water at high temperatures 16(1975)331

A.E. Austin, J.F. Miller, D.A. Vaughan and J.F. Kircher
Chemical additives for calcium sulfate scale control 16(1975)345

Miller M.D.

M.D. Miller and J.E. Potts
Membrane treatment is versatile — A single treatment facility producing boiler feed, food processing water, and drinking water 102(1995)313

Milliken J. G.

J.G. Milliken
Water resources management in arid climates 72(1989)173

Mills A. F.

A.F. Mills, G.L. Hubbard, R.K. James and C. Tan
Experimental study of film condensation on horizontal grooved tubes 16(1975)121

Mills W. R.

D.R. Anderson and W.R. Mills
An integrated pretreatment system for high recovery reverse osmosis systems 22(1977)349

W.R. Mills, Jr. and I.C. Watson
Water Factory 21 — The logical sequence 98(1994)265

Milovanov S.B.

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov and V.S. Koptev
Treatment of natural water by membranes 105(1996)33

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov
Production of quality drinking water with membranes 108(1996)167

Milow B.

B. Milow and E. Zarza
Advanced MED solar desalination plants. Configurations, costs, future — Seven years of experience at the Platforma Solar de Almeria (Spain) 108(1996)51

Milstead C. E.

F.M. Graber, H.K. Lonsdale, C.E. Milstead and B.P. Cross
Boron rejection by cellulose acetate reverse osmosis membranes 7(1970)249

C.E. Milstead, A.B. Riedinger and H.K. Lonsdale
Rejection of carbon dioxide and pH effects in reverse osmosis desalination 9(1971)217

R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
Spiral-wound poly(ether/amide) thin-film composite membrane systems 19(1976)113

R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis 23(1977)331

R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami
Recent developments in thin-film composite reverse osmosis membrane systems 36(1981)207

Milton G.A.

G.A. Milton and D.H. Furukawa
High recovery reverse osmosis with strontium sulfate in a brackish well water source 22(1977)335

Mimura K.

K. Mimura and A. Isozaki
Heat transfer and pressure drop of corrugated tubes 22(1977)131

Mimura Y.

Y. Mimura, S. Taniguchi and E. Tatsumura Mashima
How to obtain highest plant efficiency for RO desalination plant 54(1985)219

Min B. R.

B.R. Min, A.L. Gill and W.N. Gill
A note on fluoride removal by reverse osmosis 49(1984)89

Minami K.

K. Minami
A trial of high performance anaerobic treatment on wastewater from a kraft pulp mill 98(1994)273

Minasian A. N.

M.A. Al-Abbasi, A.A. Al-Karaghouli and A.N. Minasian
Photochemically assisted solar desalination of saline water 86(1992)317

Minato A.

S. Hattori and A. Minato
Human welfare by nuclear desalination using super-safe, small and simple reactors (4S) 99(1994)345

Mindler A. B.

H. Winters, I. Isquith, W.A. Arthur and A. Mindler
Control of biological fouling in seawater reverse osmosis desalination 47(1983)233

A.B. Mindler and A.C. Epstein
Measurements and control in reverse osmosis desalination 59(1986)343

Minervini M.

G.F. Casini, I.S. Di Simone and M. Minervini
Reducing and monitoring corrosion in MSF evaporators in the change-over from acid treatment to treatment with additives 39(1981)339

Mingji S.

Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan
Study on the interaction between membranes and organic solutes by the HPLC method 71(1989)107

Mingren Shi

Guo Yunlan, Shi Mingren and Hu Jiajun
Optimization in the preparation of polysulfone ultrafiltration membranes 62(1987)173

Minling F.

Ji Jiang, Sun Mingji, Fei Minling and Chen Jiayan
Study on the interaction between membranes and organic solutes by the HPLC method 71(1989)107

Mintz M. S.

M.S. Mintz
Review of membrane processes for industry symposium, Birmingham, Alabama, May 19-20, 1966 1(1966)205

Minuhin L. A.

L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova
Investigation of water steam drop condensation conditions 2(1967)337

Minuhin Z. A.

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Miquel A.

G. Schock and A. Miquel
Mass transfer and pressure loss in spiral wound modules 64(1987)339

Mir P.

F. Troyano, P. Mir and M. Torres
Use of desalination by developing countries 20(1977)427

Mironow W. I.

L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow
Use of nuclear plants in the desalination of sea water (in German) 4(1968)103

Misaki T.

T. Misaki and K. Matsui
Night soil treatment system equipped with ultrafiltration 106(1996)63

Mishukova J. S.

N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov
The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions 46(1983)197

Misra B. M.

R.P. Rastogi, K. Singh and B.M. Misra
Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water 3(1967)32

J.N. Weinstein, B.M. Misra, D. Kalif and S.R. Caplan
Transport properties of charge-mosaic membranes. II. Experimental studies 12(1973)1

M.K.V. Nair and B.M. Misra
Electrolytic scale formation in sea water distillation systems 25(1978)263

M.K.V. Nair and B.M. Misra
Electrolytic deposition for scale control in sea water distillation 27(1978)59

P.L. Kapur and B.M. Misra
Some aspects of laboratory studies on alkaline scales 27(1978)65

M.K.V. Nair, B.M. Misra and D.G. Vartak
Electrochemical studies on sea water applied to desalination 42(1982)199

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Operational experience of reverse osmosis plants for drinking water in Indian villages 65(1987)361

R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani
Water and effluent water treatment using reverse osmosis 67(1987)507

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Management and feasibility of reverse osmosis schemes for rural water supply in India 73(1989)37

H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra
Role of evaporative and membrane desalination technology in solving drinking water problems in India 96(1994)249

H.K. Sadhukhan and B.M. Misra
Design of a 1.4 mgd desalination plant based on MSF and RO processes for an arid area in India 106(1996)17

Misra B. N.

I. Kaur and B.N. Misra
Gamma radiation induced graft copolymerization of acrylate monomers onto isotactic polypropylene 64(1987)271

I. Kaur, A. Gupta, B.N. Misra and G.S. Chauhan
Functionalization of polyethylene film by radiochemical grafting for use as membranes in seawater desalination 110(1997)115

I. Kaur, G.S. Chauhan, B.N. Misra and A. Gupta
Synthesis and characterization of grafted polyethylenes for use as membranes in water desalination 110(1997)129

Missimer T. M.

T.M. Missimer, C.W. Walker and F. Bloetscher
Use of aquifer storage and recovery technology to improve membrane water treatment plant efficiency, Collier County, Florida 87(1992)269

T.M. Missimer
Groundwater as a feedwater source for membrane treatment plants: Hydrogeologic controls on water quality variation with time 98(1994)451

Mitcheson G. R.

D.C. Hicks, G.R. Mitcheson, C.M. Pleass and J.F. Salevan
DELBUOY: Ocean wave-powered seawater reverse osmosis desalination system 73(1989)81

Mitrovic M.

M. Mitrovic and L. Knezic
Electrolytic aluminium oxide membranes — A new kind of membrane with reverse osmotic characteristics 28(1979)147

Mitsoyannis E.

E. Mitsoyannis and G.D. Saravacos
Precipitation of calcium carbonate on reverse osmosis membranes 21(1977)235

Mitzutani Y.

K. Kusumoto, Y. Mizumoto and Y. Mitzutani
Modification of anion-exchange membranes by oxidation of selected chemical sites for the purpose of preventing fouling during dialysis 17(1975)303

Miura M.

M. Miura and K. Harada
Application of concentrator on the treatment of industrial waste water 98(1994)375

Miwa T.

T. Miwa, D.R. Jordan and W.F. McIlhenny
Seawater desalting by electrodialysis 20(1977)375

T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa
Seawater desalination by electrodialysis 25(1978)1

Mixon F. O.

F.O. Mixon
Behavior of a freely draining rectangular hydraulic piston wash separator 7(1970)229

Mixon W. R.

D.G. Thomas and W.R. Mixon
Engineering development of hyperfiltration with dynamic membranes. Part I. Process and module development 15(1974)287

D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard
Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed 15(1974)325

Miyamura H.

A.M. Al-Mudaiheem and H. Miyamura
Construction and commissioning of Al Jobail Phase II desalination plant 55(1985)1

Miyano T.

S. Nakatsuka, I. Nakate and T. Miyano
Drinking water treatment by using ultrafiltration hollow fiber membranes 106(1996)55

Miyashita R.

H. Ohya, K. Yajima and R. Miyashita
Design of reverse osmosis process 63(1987)119

Miyatake O.

O. Miyatake, T. Tomimura, Y. Ide and T. Fujii
An experimental study of spray flash evaporation 36(1981)113

O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii
Effect of liquid temperature on spray flash evaporation 37(1981)351

O. Miyatake, T. Hashimoto and N. Lior
The relationship between flow pattern and thermal non-equilibrium in the multi-stage flash evaporation process 91(1993)51

O. Miyatake
Comparative study of flash evaporation rates 96(1994)163

Miyoshi H.

H. Miyoshi, T. Fukumoto and T. Kataoka
A consideration on flow distribution in an ion exchange compartment with spacer 42(1982)47

H. Miyoshi, T. Fukumoto and T. Kataoka
An equation for estimating the diffusion coefficient of electrolytes in ion exchange membranes 48(1983)43

Mizoue T.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Mizumoto Y.

K. Kusumoto, Y. Mizumoto and Y. Mitzutani
Modification of anion-exchange membranes by oxidation of selected chemical sites for the purpose of preventing fouling during dialysis 17(1975)303

Mizuniwa T.

J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi
Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia 22(1977)299

Mizutani Y.

K. Kusumoto and Y. Mizutani
New anion-exchange membrane resistant to organic fouling 17(1975)111

Moalem-Maron D.

S. Sideman, D. Moalem and R. Semiat
Theoretical analysis of horizontal condenser-evaporator conduits of various cross-sections 17(1975)167

D. Moalem, S. Sideman and R. Semiat
Simultaneous film evaporation and condensation on a two-directionally inclined surface 21(1977)51

S. Sideman, D. Moalem and R. Semiat
Performance improvement of horizontal evaporator-condenser desalination units 21(1977)221

R. Semiat, D. Moalem-Maron and S. Sideman
Transfer characteristics of convex and concave rivulet flow on inclined surfaces with straight-edged grooves 34(1980)267

D. Moalem-Maron, R. Semiat and S. Sideman
Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes 34(1980)289

D. Moalem-Maron, G. Ingel and N. Brauner
Wettability and break-up of thin films on inclined surfaces with continuous and intermittent feed 42(1982)87

N. Brauner, D. Moalem-Maron and Z. Harel
Wettability, rewettability and breakdown of thin films of aqueous salt solutions 52(1985)295

Mobasheri F.

F. Mobasheri and R. Harboe
Optimum conjunctive use of a dual-purpose desalting plant and a surface water reservoir 9(1971)141

Moberg O.

O. Moberg
Development of desalination technology using warm discharge water 22(1977)141

Moch Jr. I.

I. Moch, Jr.
A twenty year case history — B-9 hollow fiber permeator 74(1989)171

A.M. Ahmed and I. Moch, Jr.
Seawater reverse osmosis. A study in use 82(1991)3

T.J. Eckman, I. Moch, Jr. and C.P. Shields
The TWINTM permeator - Development and commercialization of a new RO device 96(1994)11

E. Oklejas, I. Moch and K. Nielsen
Low cost incremental seawater plant capacity increase by coupling advanced pumping and RO technologies 102(1995)189

R.E. Benson and I. Moch
Reactivating after 11 years a 3 mgd seawater RO plant in Florida 102(1995)209

Mochizuki S.

S.P. Palecek, S. Mochizuki and A.L. Zydney
Effect of ionic environment on BSA filtration and the properties of BSA deposits 90(1993)147

Mochizuki Y.

M. Kishi, Y. Mochizuki, M. Matsubayashi and K. Hattori
Development of flashing flow model for box type orifice 65(1987)57

Modet J. A.

R. Starmer, F.C. Thornley and J.A. Modet
Problems likely to be encountered in the design of a large flash distillation plant 3(1967)343

Modica A. P.

G.L. Stepakoff and A.P. Modica
The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 (CClF2CClF2) 12(1973)85

G.L. Stepakoff and A.P. Modica
The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data 12(1973)239

W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone
Spray freezer and pressurized counterwasher for freeze desalination 14(1974)249

Mody R. C.

M.D. Vyas and I.C. Mody
Morphological study of cellulose acetate benzoate membranes by scanning electron microscopy 42(1982)107

R. Rangarajan, N.V. Desai, R.C. Mody, D. Mohan and A.V. Rao
Development of fabric reinforced polysulfone membranes 85(1991)81

Moe L.

Z. Changluo, L. Moe, X. Wei and J. Wenchang
A study on characteristics and enhancement of pervaporation - membrane separation process 71(1989)1

Moen D. L.

D.L. Moen and D. Cane
An improved MSF evaporator configuration 45(1983)25

M. Al-Sofi, R.D. Peterson, D.L. Moen, Y. Soejima and H. Sawada
Thermal performance of 10 x 5.2 MIGD MSF plants, Al Jobail Phase II 55(1985)357

Mogensen G.

G. Mogensen
Production and properties of yoghurt and ymer made from ultrafiltrated milk 35(1980)213

Mogilner I. D.

V.V. Barinov, V.L. Podbereznji, I.D. Mogilner and V.F. Barinov
The use of a qualitative method of control for some process parameters of distillation desalting plants 88(1992)179

Mohammed R. A.

A.M. Shams El Din and R.A. Mohammed
Uptake of calcium and magnesium from the Arabian Gulf water on plastic and glass surfaces 61(1987)245

A.M. Shams El Din and R.A. Mohammed
On the thermal stability of the HCO3—and the CO32— ions in aqueous solutions 69(1988)241

A.M. Shams El Din and R.A. Mohammed
The problem of alkaline scale formation from a study on Arabian Gulf water 71(1989)313

A.M. Shams El Din and R.A. Mohammed
Brine and scale chemistry in MSF distillers 99(1994)73

A.M. Shams El Din and R.A. Mohammed
Physico-chemical studies on BELGARD EV and BELGARD EV 2000 solutions. Part II. Potentiometric and conductometric acid-base titrations 107(1996)277

H.I. Al Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din
Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water 109(1997)25

Mohan D.

R. Rangarajan, N.V. Desai, R.C. Mody, D. Mohan and A.V. Rao
Development of fabric reinforced polysulfone membranes 85(1991)81

Mohn J.

H. Finken, J. Kaschemekat and J. Mohn
Reverse osmosis: Field trials of a GKSS plate module plant on Baltic Sea water 29(1979)285

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects 31(1979)501

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience 39(1981)125

M.G.A. Khedr, A.H. Abd El-Wahab, J. Kaschemekat and J. Mohn
A field trial of reverse osmosis in the El Khanka Desert, Egypt 51(1984)173

Mohri S.

Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri
Evaluation of toxic substances in effluents from a wastewater treatment plant 106(1996)255

Mohrmann A.

K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors 53(1985)197

Moisse J.

J. Moisse
Calcium sulphate scale removal during operation in horizontal tube film evaporators 38(1981)169

Molenat J.

A. Elmidaoui, A.T. Cherif, J. Molénat and C. Gavach
Transfer of H2SO4, Na2SO4 and ZNSO4 by dialysis through an anion exchange membrane 101(1995)39

K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
Elimination of nitrate from drinking water by electrochemical membrane processes 101(1995)123

Molinari R.

E. Drioli, M. Mendia and R. Molinari
Membrane processes combined with enzymatic reactions: an experimental study 24(1978)193

V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli
Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis 78(1990)257

R. Molinari, R. Gagliardi and E. Drioli
Methodology for estimating saving of primary energy with membrane operations in industrial processes 100(1995)125

A. Cassano, E. Drioli, R. Molinari and C. Bertolutti
Quality improvement of recycled chromium in the tanning operation by membrane processes 108(1996)193

Mollica A.

C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl
Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material 97(1994)53

Molseed A. C.

A.C. Molseed, J.R. Hunt and M.W. Cowin
Desalination of agricultural drainage return water. Part I: Operational experiences with conventional and nonconventional pretreatment methods 61(1987)249

Mondin H.

J. Huyghe, G. Barois, A. Michel and H. Mondin
Experimental study of autovaporization in slightly superheated pool water and analysis of the flow of an adiabatically flashing liquid in a channel (in French) 4(1968)209

Monheim P.

J. Lammers, G. Scheffler and P. Monheim
Some design aspects deduced from the thermodynamic calculations for MSF desalination plants 22(1977)385-393, Err. 23(1977)588

R. Rautenbach, P. Monheim and D. Zebrowski
MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry 31(1979)197

Monnerie L.

J.L. Halary, C. Noel and L. Monnerie
Physicochemical processes during fabrication of cellulose acetate membranes. Standards for performance optimization. I. Dopes containing aqueous solutions of inorganic salts (in French) 13(1973)251

J. Vinit, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes research of criteria for optimizing membrane performance. II. Influence of cellulose diacetate chain hydration on the effect of heat treatment 15(1974)267

M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions 21(1977)165

J.L. Halary, C. Noël and L. Monnerie
Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis 27(1978)197

J.L. Halary, C. Nöel and L. Monnerie
Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis 32(1980)65

C. Friedrich, A. Driancourt, C. Noël and L. Monnerie
Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone 36(1981)39

Monopoli B.

A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli
Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants 16(1975)135

Monroe A. L.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Montagna J. M.

J.M. Montagna, N.J. Scenna and T. Melli
Some theoretical aspects in simulation of multiple stage desalination systems 81(1991)437

Montfort L.

L. Montfort and C. Oudendijk
Towage of an iceberg 29(1979)79

Montschinski A. G.

L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow
Use of nuclear plants in the desalination of sea water (in German) 4(1968)103

Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski
Analysis of the technical and economic data of multi-purpose nuclear plants (in German) 5(1968)201

Moody C. D.

C.D. Moody and J.O. Kessler
Forward osmosis extractors 18(1976)283

J.O. Kessler and C.D. Moody
Drinking water from sea water by forward osmosis 18(1976)297

C.D. Moody, J.W. Kaakinen, J.C. Lozier and P.E. Laverty
Yuma desalting test facility: Foulant component study 47(1983)239

A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody
Yuma Desalting Plant. Membrane degradation during test operations 88(1992)33

A.P. Murphy, L.H. Rowley and C.D. Moody
Dilute aqueous formaldehyde oxidation with hypochlorous acid 91(1993)199

S.H. Suemoto, L.A. Haugseth and C.D. Moody
Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A. 96(1994)43

A.C.F. Ammerlaan, J.C. Franklin and C.D. Moody
Controlling loss of salt rejection and water flux at the Yuma Desalting Plant 96(1994)421

Moody J.

W.J. Conlon, F.A. Blandon and J. Moody
Cost comparison of treatment alternatives for the removal of nitrates and DBCP from Southern California groundwater 103(1995)89

Moonen H.

H. Moonen and H. J. Niefind
Alcohol reduction in beer by means of dialysis 41(1982)327

Moore F. E.

F.E. Moore
Today's status of pH measurement and control in desalination plants 39(1981)23

Moore H.

I.D. McGregor and H. Moore
Improvement in distiller production and performance ratio after modification of the stage venting system 93(1993)159

Mora J. C.

Jin Sheng and J.C. Mora
Pervaporation and dehydration of water-ethanol mixtures by means of cuprophan hollow fiber membranes 80(1991)71

Morag M.

G.M. Berlyne and M. Morag
Metabolic effects of drinking brackish water 10(1972)215

Morbidelli M.

M. Rosso, A. Beltramini, M. Mazzotti, and M. Morbidelli
Modeling multistage flash desalination plants 108(1996)365

Moretti E.

M. Bertuzzi, G. D'Angelo and E. Moretti
Experience with 4 x 5 Migd MSF plant in Qatar: Report on construction material performances 45(1983)175

Moretti P.

S. Munari, A. Bottino, G. Capannelli and P. Moretti
Membrane morphology and transport properties 53(1985)11

S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes 70(1988)265

Morgan White I.

D.J. Woodcock and I. Morgan White
The application of Pelton type impulse turbines for energy recovery on sea water reverse osmosis systems 39(1981)447

Mori G.

A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci
Desalination plant of 3.8 mgpd at Gela (Sicily) 19(1976)317

Mori I.

K. Kiriyama, Y. Tanaka and I. Mori
Field test on a methane fermentation treatment system incorporating a membrane module for municipal sewage 98(1994)199

Mori K.

S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno
Reverse osmosis membranes from aromatic polymers 21(1977)183

R.L. Goldsmith, B.A. Wechsler, S. Hara, K. Mori and Y. Taketani
Development of PBIL low pressure brackish-water reverse osmosis membranes 22(1977)311

H. Tsuge and K. Mori
Reclamation of municipal sewage by reverse osmosis 23(1977)123

H. Tsuge, C. Yanagi and K. Mori
Desalination of sea water by reverse osmosis using tubular module 23(1977)235

C. Yanagi and K. Mori
Advanced reverse osmosis process with automatic sponge ball cleaning for the reclamation of municipal sewage 32(1980)391

Moricet M.

K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel
Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant 44(1983)61

Morin O. J.

O.J. Morin
Design of desalination plant facilities for remote locations 19(1976)533

O.J. Morin
Bluehills desalination plant — Engineering investigation 22(1977)13

O.J. Morin and R.A. Johnson
MSF evaporator fabricated from reinforced thermosetting materials 31(1979)355

C.D. Hornburg and O.J. Morin, Jr.
Design aspects of large sea water reverse osmosis desalination plants 45(1983)241

P.J. Malaxos and O.J. Morin
Surface water discharge of reverse osmosis concentrates 78(1990)27

G. Hess, O.J. Morin and W.V. Carrigan
Seawater desalting for Southern California: Technical and economic considerations 87(1992)55

O.J. Morin
Design and operating comparison of MSF and MED systems 93(1993)69

S.D.N. Freeman and O.J. Morin
Recent developments in membrane water reuse projects 103(1995)19

Morisaki S.

K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto
Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets 97(1994)147

Morita M.

M.K.H. Liew, S. Tanaka and M. Morita
Separation and purification of lactic acid: Fundamental studies on the reverse osmosis down-stream process 101(1995)269

Moriyama N.

Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas
The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai 83(1991)65

Moriyama T.

H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka
Analysis of reverse osmotic characteristics of American-standard type tubular module 16(1975)235

Moro A.

G. Crozes, B. Capdeville and A. Moro
Gel permeation: A means to characterize wastewater and residual dissolved organic matter in effluents 106(1996)213

Morris A. R.

A.R. Morris
The use of titanium tubes in MSF desalination plants 31(1979)387

Morris J. T.

W.R. Everest and J.T. Morris
The Frances Desalter: A key to water independence on the Irvine Ranch 103(1995)127

Morris M.

M. Morris
Environmental problems of siting and operating desalination plants in the United States 30(1979)3

M. Morris
A comparison of desalting processes from an energy point of view 40(1982)237

Morris R. M.

D.T. Jamieson, J.S. Tudhope, R. Morris and G. Cartwright
Physical properties of sea water solutions: Heat capacity 7(1969)23

J.D. Isdale and R. Morris
Physical properties of sea water solutions: Density 10(1972)329

D.W. Black and R.M. Morris
Experience in commissioning large desalination plants in the Middle East 39(1981)229

R. McBride, R. Morris and W. Hanbury
Wind power — A reliable source for desalination 67(1987)559

R.M. Morris
The development of the multi-stage flash distillation process: A designer's viewpoint 93(1993)57

Morrison G. L.

P.A. Hogan, Sudjito, A.G. Fane and G.L. Morrison
Desalination by solar heated membrane distillation 81(1991)81

Morse R. N.

R.N. Morse
The construction and installation of solar stills in Australia 5(1968)82

Morsi Abou El Ela M.

M. Morsi Abou El Ela
New and developed material and chemicals in desalination technology 93(1993)529

Morsy H.

H. Morsy, D. Larger and K. Genthner
A new multiple-effect distiller system with compact heat exchangers 96(1994)59

Morsy M.G.

M.G. Morsy
Towards less expensive fresh water from the sea 93(1993)397

Morton A.J.

A.J. Morton, I.K. Callister and N.M. Wade
Environmental impacts of seawater distillation and reverse osmosis processes 108(1996)1

Morton B. J.

S.W. Walinsky and B.J. Morton
Chemistry of alkaline scale inhibition in seawater desalination by FLOCON Antiscalant 247 31(1979)289

S.W. Walinsky, B. J. Morton and J.J. O'Neill
Structure/performance relationships of high-temperature MSF scale control additives 38(1981)203

Mosegaard P.

P. Mosegaard and G. Jonsson
On the reproducibility of asymmetric cellulose acetate membranes 46(1983)313

G. Arneri, L.L. Chapoy, G. Jonsson and P. Mosegaard
The application of polarized fluorescence spectroscopy in the characterization of molecular orientation in cellulose acetate reverse osmosis membranes 46(1983)435

Mossa G.

G. Boari, C. Merli, G. Mossa and R. Passino
Study of the morphology and determination of the transport coefficients for reverse osmosis membranes 16(1975)271

W. Pusch and G. Mossa
Influence of pressure and/or pressure differential on membrane permeability 24(1978)39

G. Mossa, R. Passino and M. Pegoraro
Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes 34(1980)57

G. Mossa and R. Passino
Uptake of electrolytes by cellulose acetate membranes 46(1983)417

Mössner G.

G. Mössner
Evaluation and development of technical thermoplastic systems for desalination and other water treatment applications 44(1983)325

Motomi K.

E. Oikawa, M. Shingai, K. Motomi and T. Aoki
Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol 101(1995)69

Mottar J.

W. Doyen, R. Leysen, J. Mottar and G. Waes
New composite tubular membranes for ultrafiltration 79(1990)163

Moulik S.

S. Basu and S. Moulik
Studies on the application of RO in treatment of rayon plant effluent 47(1983)335

Mouritz M.

P. Newman and M. Mouritz
Principles and planning opportunities for community scale systems of water and waste management 106(1996)339

Mousa K. M.

A.L.A. Malik, K.M. Mousa, N.G. Younan and B.J.R. Rao
Performance evaluation of three different seawater RO membranes at DROP in Kuwait 63(1987)163

A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait 75(1989)341

Mozharov N. A.

L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Viceblatt and V.M. Lavygin
The choice of basic parameters of a multi-stage flash plant for sea water desalination 4(1968)94

L.S. Sterman, N.A. Mozharov and V.V. Gubenko
Selection of parameters of an atomic energy plant with high productivity distillation of sea water 5(1968)95

Mrejin Z. S.

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Mrowiec-Bialon J.

M. Turek, J. Mrowiec-Bialon and W. Gnot
Utilization of coal mine brines in the chlorine production process 101(1995)57

Mroz E. A. J.

E.A.J. Mroz
Scale prevention via quench dilution 3(1967)135

Mubarak A. M.

A.M. Mubarak and H.T. El-Dessouky
Design of waste heat boiler for desalination-gas turbine co-generation plant 55(1985)145

Mucciante V.

G. Del Re, F. Fantauzzi, G. Di Giacomo and V. Mucciante
Enthalpy of dilution of aqueous CaCI2 solutions at 308.15 K 107(1996)199

Muhuji M.

M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai
Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant 76(1989)75

Muir J. W. H.

M.A. Finan, S. Smith, C.K. Evans and J.W.H. Muir
BELGARD®EV - 15 years' experience in scale control 73(1989)341

Muirhead A.

A. Muirhead, S. Beardsley and J. Aboudiwan
Performance of the 12,000 m3/d seawater reverse osmosis desalination plant at Jeddah, Saudi Arabia, January 1979 through January 1981 42(1982)115

Mukhamer S.

S. Mukhamer and J. Ibrahim
Egyptian experience in utilizing recycled water for irrigation purposes 93(1993)633

Mukherjee D.

D. Mukherjee, A. Kulkarni and W.N. Gill
Chemical treatment for improved performance of reverse osmosis membranes 104(1996)239

Mukherjee K.

G.N. Tiwari, K. Mukherjee, K. Ashok and Y.P. Yadav
Comparison of various designs of solar stills 60(1986)191

Mukherjee R. N.

B. Chakravorty, R.N. Mukherjee and S. Basu
Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents 46(1983)353

Mulder M. H. V.

C.A. Smolders, M.H.V. Mulder and P.M. van der Velden
A survey of structure characterization methods for ultrafiltration and reverse osmosis membranes 19(1976)481

K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders
Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends 61(1987)211

Mulford S. F.

N. Arad, S.F. Mulford and J.R. Wilson
Prediction of large desalting plant availability factor 3(1967)378

Müller A.

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects 31(1979)501

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience 39(1981)125

Müller-Frank U.

H.U. Müller and H. Strathmann
Electrodialytic removal of carbonates from seawater 47(1983)201

H.K. Heybach and U. Müller-Frank
The chance for reverse osmosis technology: Vacuum precoated prefiltration/automation 54(1985)137

Munari S.

G. Canepa, S. Munari, C. Rossi and F. Vigo
Preparation and properties of membranes obtained by radiation induced grafting of 4-vinylpyridine onto polytetrafluoroethylene films 13(1973)159

F. Vigo, G. Capannelli, C. Uliana and S. Munari
Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application 36(1981)63

F. Vigo, G. Capannelli and S. Munari
Amphoteric membrane preparation and their application to saline water hyperfiltration 37(1981)313

S. Munari, A. Bottino, G. Capannelli and P. Moretti
Membrane morphology and transport properties 53(1985)11

A. Bottino, G. Capannelli, S. Munari and A. Turturro
High performance ultrafiltration membranes cast from LiCl doped solutions 68(1988)167

S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes 70(1988)265

S. Munari, A. Bottino, G. Camera Roda and G. Capannelli
Preparation of ultrafiltration membranes. State of the art 77(1990)85

P. Abaticchio, A. Bottino, G. Camera Roda, G. Capannelli and S. Munari
Characterization of ultrafiltration polymeric membranes 78(1990)235

Muniz A.

A. Muniz and S.T. Skehan
Disposal of concentrate from brackish water desalting plants by use of deep injection wells 78(1990)41

Munneke B. R.

J.C. van Dijk, B.R. Munneke, B. Kramer and J.W. Wouters
Membrane filtration: A realistic option in the field of water supply? 81(1991)229

Munro P.A.

A.D. Marshall, P.A. Munro and G. Trägårdh
The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review 91(1993)65

Muragishi H.

T. Ikeda, H. Muragishi, R. Bairinji and T. Uemura
Advanced reverse osmosis membrane modules for novel ultrapure water production process 98(1994)391

Murai Y.

Y. Murai, T. Yamadera and Y. Koike
An experience on re-use of waste water discharged from metal plating shop 23(1977)97

Murakami M.

M. Murakami
Hydro-powered reverse osmosis (RO) desalination for co-generation: A Middle East case study 97(1994)301

M. Murakami
Water for peace master plan of the Jordan river system 98(1994)459

Muramoto S.

S. Muramoto and J. Nishino
An advanced purification system combining ozonation and BAC, developed by The Bureau of Waterworks, Tokyo Metropolitan Government 98(1994)207

Murano M.

D.P. Logan and K. Kuroda
Improved high temperature MSF evaporator operation for potable water production 54(1985)361

Murase K.

S. Toyama, T. Aragaki, K. Murase and K. Tsumura
Simulation of a multieffect solar distillator 45(1983)101

S. Toyama, T. Aragaki, H.M. Salah and K. Murase
Dynamic characteristics of a multistage thermal diffusion type solar distillator 67(1987)21

S. Toyama, M. Nakamura, H.M. Salah, S. Futamura and K. Murase
Laboratory test of solar distillator with a heat penetrating plate having a bend 67(1987)67

M.S. Hassan, S. Toyama, K. Murase and M.A. Wahhab
Multieffect solar still for agricultural purposes in hot climate 71(1989)347

K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
Development and application of a roof type solar still 73(1989)111

S. Toyama, K. Murase, S. Kimura and M. Nakamura
Surface evaporation in liquid flowing down an inclined groove 82(1991)387

Murat F.

B. Franquelin, F. Murat and C. Temstet
Application of the multi-effect process at high temperature for large seawater desalination plants 45(1983)81

M. Lucas and F. Murat
Desalination by mechanical vapour compression. Operational results after one year operation of the Flamanville unit. Comparison with other desalination processes by evaporation 55(1985)33

T. Michels and F. Murat
High performance ejectocompression desalination unit steam fed by a heat recovery boiler using exhaust gases of a diesel generator 66(1987)69

Murata M.

M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka
Small-scale sewage plant experiment by pretreatment and methanization of suspended solid 98(1994)217

Murayama Y.

Y. Murayama, T. Kasamatsu and J.G. Gaydos
Live seawater experience in Japan with hollow fiber permeators 19(1976)439

Y. Kunisada, Y. Murayama and M. Hirai
The development of seawater desalination by reverse osmosis process in Japan 22(1977)243

Y. Kunisada and Y. Murayama
Long term experiments on sea water desalination at the Chigasaki Laboratory 27(1978)333

Y. Kunisada, H. Kaneda, M. Hirai and Y. Murayama
Sea water desalination by reverse osmosis in Chigasaki Laboratory 30(1979)337

Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
Operating experience on RO sea water desalination plant at Chigasaki Laboratory 39(1981)413

G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama
Advanced treatment of secondary sewage effluent by membrane process 39(1981)423

Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama
Desalination of high salinity sea water by reverse osmosis (Summary) 46(1983)145

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
Experiments on seawater desalination by membrane distillation 69(1988)19

Murdia K.S.

J. Glater, K.S. Murdia and R. Dooly
Calcium sulfate hemihydrate scaling threshold enhancement by magnesium ion augmentation 14(1974)197

Murkes J.

J. Murkes and H. Bohman
Mathematical modelling of reverse osmosis and ultrafiltration processes 11(1972)269

J. Murkes
Some viewpoints on the industrial application of membrane technology 24(1978)225

Muro S.

S. Muro, R. Sterner and J. Ugarte
Investigation on sea water desalination plants in Spain 28(1979)109

Murphree T.

W.R. Everest and T. Murphree
Desalting residuals: A problem or a beneficial resource? 102(1995)107

Murphy A. P.

A.P. Murphy
Deterioration of cellulose acetate by transition metal salts in aqueous chlorine 85(1991)45

A.P. Murphy, L.H. Rowley and C.D. Moody
Dilute aqueous formaldehyde oxidation with hypochlorous acid 91(1993)199

Murphy E.

E. Murphy
Wastewater disposal option in Mundaring: A practical case study 106(1996)361

Murphy G.W.

G.W. Murphy and J.H. Tucker
Demineralization behavior of carbon and chemically-modified carbon electrodes 1(1966)247

Murphy L. L.

E.D. Schwartz and L.L. Murphy
Design, permitting and construction of a membrane treatment facility: The New Rochelle (NY) experience 102(1995)63

Murrer J.

D. Squire, J. Murrer, P. Holden and C. Fitzpatrick
Disposal of reverse osmosis membrane concentrate 108(1996)143

Murthy Z.V.P.

Z.V.P. Murthy and S.K. Gupta
Estimation of mass transfer coefficient using a combined nonlinear membrane transport and film theory model 109(1997)39

Musatti M.

R. Zannoni, A. Bonacini, M. Musatti and I. Resini
Limestone hardening system for Brindisi's power station: First limestone recarbonation unit installed in Italy for industrial water production 82(1991)351

Musihin R. N.

V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin
Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design 45(1983)15

Musikhin N. N.

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

Myagkov A. A.

A.I. Korneichev, A.V. Izvekov and A.A. Myagkov
Optimization of basic parameters of thermal desalting plants with adiabatic evaporation 7(1970)179

Mysels K. J.

K.J. Mysels
Lateral flow through a membrane and along a backing support to a collector 60(1986)67

Naaktgeboren A. J.

A.J. Naaktgeboren, G.J. Snijders and J. Gons
Characterization of a new reverse osmosis composite membrane for industrial application 68(1988)223

Nachinkin O. I.

N.P. Leksovskaia, Z.Y. Chereisky, I.G. Ruban and O.I. Nachinkin
Effect of the solution-gel-solid system transition on the properties of microfiltration membranes 86(1992)91

Nada N.

N. Nada
Operating experience of MSF units in Saudi Arabia 41(1982)57-69, Err. 41(1982)337

N. Nada
Evaluation of various additives at Jubail Phase I during reliability trials 51(1984)137

N. Nada, D. Khumayyis and M. Al-Hussain
Economical evaluation of Alkhobar Phase Two 50 MIGPD at three different mode of operation 55(1985)43

N. A. Nada, Al-Zahrani and B. Ericsson
Experience on pre- and post-treatment from seawater desalination plants in Saudi Arabia 66(1987)303

N. Nada, H. Iwahashi and F. Umemori
Test result of the intermittent chlorine injection method in Jeddah 1 plant 96(1994)283

Nadav N.

A. Ophir and N. Nadav
Solar energy as a source for production of power and desalinated water 40(1982)103

N. Nadav and A. Ophir
Production of electrical power from concentrated brines 40(1982)197

A. Koren and N. Nadav
Mechanical vapour compression to treat oil field produced water 98(1994)41

Nagai H.

T. Saitoh, H. Nagai, M. Imai, K. Nakajima and M. Tujimura
Simultaneous removal of DO and TOC in ultrapure water by using UV rays 98(1994)249

Nagai M.

M. Nagai, H. Iwahashi, Y. Hayashi and Y. Ogino
The behavior of an oxidizing/reducing agent in seawater 96(1994)291

N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi
The effect of heavy metal ions on the oxidation of cellulose triacetate membranes 96(1994)431

A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis 96(1994)451

Nagasawa S.

G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi
Water re-use in fiber dyeing industry 23(1977)133

Nagashima S.

T. Nakagawa, S. Nagashima and A. Higuchi
Synthesis and gas transport properties of new copolymer membranes with trimethylsilyl groups 90(1993)183

Nagata N.

G. Belfort and N. Nagata
Fluid mechanics and cross-flow filtration: Some thoughts 53(1985)57

Nagata T.

K. Ohshiro, T. Nosoko and T. Nagata
A compact solar still utilizing hydrophobic poly(tetrafluoroethylene) nets for separating neighboring wicks 105(1996)207

Nagel R.

K. Kuenstle, M. Moricet, K. Marquardt and R. Nagel
Conceptual design and economical evaluation of a combined MSF-RO seawater desalination plant 44(1983)61

K. Marquardt, R. Nagel and H. Seeger
Seawater desalination by reverse osmosis 46(1983)135

K. Marquardt and R. Nagel
Demonstration plant for seawater desalination by reverse osmosis (RO-2 hollow fibre module line) 60(1986)25

R. Nagel
Seawater desalination with polyamide hollow fibre modules at DROP 63(1987)225

Nair M.K.V.

M.K.V. Nair and B.M. Misra
Electrolytic scale formation in sea water distillation systems 25(1978)263

M.K.V. Nair and B.M. Misra
Electrolytic deposition for scale control in sea water distillation 27(1978)59

M.K.V. Nair, B.M. Misra and D.G. Vartak
Electrochemical studies on sea water applied to desalination 42(1982)199

Naito Y.

K. Urano, T. Ase and Y. Naito
Recovery of acid from wastewater by electrodialysis 51(1984)213

K. Urano, Y. Masaki and Y. Naito
Increase in electric resistance of ion exchange membranes by fouling with naphthalenemonosulfonate 58(1986)177

Nakagawa T.

A. Higuchi, Y. Ishida and T. Nakagawa
Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan 90(1993)127

T. Nakagawa, S. Nagashima and A. Higuchi
Synthesis and gas transport properties of new copolymer membranes with trimethylsilyl groups 90(1993)183

Nakagawa Y.

M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura
Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules 46(1983)101

N. Matsuka, Y. Nakagawa, M. Kurihara and T. Tonomura
Reaction kinetics of sodium bisulfite and dissolved oxygen in seawater and their applications to seawater reverse osmosis 51(1984)163

M. Kurihara, T. Uemura, Y. Nakagawa and T. Tonomura
The thin-film composite low pressure reverse osmosis membranes 54(1985)75

Nakagome K.

Y. Kamiyama, N. Yoshioka, K. Matsui and K. Nakagome
New thin-film composite reverse osmosis membranes and spiral wound modules 51(1984)79-92, Err. 51(1984)336

Nakahara T.

T. Nakahara, H. Sasaki, Y. Kanda and H. Togano
Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants 23(1977)151

Nakajima K.

T. Saitoh, H. Nagai, M. Imai, K. Nakajima and M. Tujimura
Simultaneous removal of DO and TOC in ultrapure water by using UV rays 98(1994)249

Nakajima M.

T. Kawakatsu, M. Nakajima, S. Nakao and S. Kimura
Three-dimensional simulation of random packing and pore blocking phenomena during microfiltration 101(1995)203

Nakamura I.

S. Itoi, I. Nakamura and T. Kawahara
Electrodialytic recovery process of metal finishing waste water 32(1980)383

Nakamura J.

H.C. Simpson, G.C. Beggs, J. Deans and J. Nakamura
Growth of ice crystals 14(1974)341

H.C. Simpson, G.C. Beggs, J. Nakamura and A. Baxter
The C-axis growth rate of ice crystals 18(1976)219

Nakamura M.

S. Toyama, M. Nakamura, H.M. Salah, S. Futamura and K. Murase
Laboratory test of solar distillator with a heat penetrating plate having a bend 67(1987)67

I. Terada, M. Nakamura and M. Nakao
Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolefin) membrane by pervaporation method 70(1988)455

K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
Development and application of a roof type solar still 73(1989)111

S. Toyama, K. Murase, S. Kimura and M. Nakamura
Surface evaporation in liquid flowing down an inclined groove 82(1991)387

Nakamura T.

S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama
Production of heavy oil from sewage sludge by direct thermochemical liquefaction 98(1994)127

Nakane T.

C. Kamizawa, H. Masuda, M. Matsuda, T. Nakane and H. Akami
Studies on the treatment of gold plating rinse by reverse osmosis 27(1978)261

M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato
Recovery of gold from the plating rinse by adsorption with nylon fibers 29(1979)275

H. Yanagishita, H. Nozoye and T. Nakane
Preparation of 6FDA-based polyimide composite membranes by CVDP process 90(1993)55

Nakano I.

H. Kishino, H. Ishida, H. Iwabu and I. Nakano
Domestic wastewater reuse using a submerged membrane bioreactor 106(1996)115

Nakano M.

M. Kishi, S. Serizawa and M. Nakano
New electrodialyser system with automatic chemical cleaning 23(1977)203

Nakano T.

K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
New composite charged reverse osmosis membrane 68(1988)109

Nakao M.

I. Terada, M. Nakamura and M. Nakao
Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolefin) membrane by pervaporation method 70(1988)455

Nakao S.

S. Kimura and S.-I. Nakao
Fouling of cellulose acetate tubular reverse osmosis modules treating the industrial water in Tokyo 17(1975)267

S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
Separation of proteins by charged ultrafiltration membranes 70(1988)191

T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura
Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures 81(1991)219

T. Kawakatsu, M. Nakajima, S. Nakao and S. Kimura
Three-dimensional simulation of random packing and pore blocking phenomena during microfiltration 101(1995)203

Nakasatomi M.

M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi
Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials 38(1981)449

Nakashima Y.

S. Toyama, Y. Nakashima and M. Sato
Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys 40(1982)297

Nakate I.

S. Nakatsuka, I. Nakate and T. Miyano
Drinking water treatment by using ultrafiltration hollow fiber membranes 106(1996)55

Nakatsuka S.

S. Nakatsuka, I. Nakate and T. Miyano
Drinking water treatment by using ultrafiltration hollow fiber membranes 106(1996)55

Nakhamkin M.

L.F. Giannuzzi, O.E. Horn and M. Nakhamkin
Optimization of integrated cogeneration power plant and desalination plant systems for a range of power and water supply requirements 39(1981)437

Nam K. T.

R.E. Kesting, J.M. Newman, K.T. Nam and J.F. Ditter
Dry-RO membranes from blends of ionogenic and nonionogenic polymers 46(1983)343

Nancollas G. H.

M.M. Reddy and G.H. Nancollas
Calcite crystal growth inhibition by phosphonates 12(1973)61-73, Err. 13(1973)104

M.M. Reddy and G.H. Nancollas
Calcite crystal growth inhibition by phosphonates 12(1973)61-73, Err. 13(1973)104

Sungtsuen Liu and G.H. Nancollas
The crystallization of magnesium hydroxide 12(1973)75

J.S. Gill and G.H. Nancollas
The growth of gypsum crystals on barite and calcite 29(1979)247

C.-C. Chieng and G.H. Nancollas
The crystallization of magnesium hydroxide, a constant composition study 42(1982)209

Narayana A.

S.K. Gupta, S. Gupta and A. Narayana
Design and parameter estimation of reverse osmosis systems 86(1992)77

Narayanan P.K.

K.P. Govindan and P.K. Narayanan
Demineralization by electrodialysis 19(1976)229

K.P. Govindan and P.K. Narayanan
Demineralization by electrodialysis using ampholytic ion-conducting spacers 38(1981)517

W.P. Harkare, S.K. Adhikary, P.K. Narayanan, V.B. Bhayani, N.J. Dave and K.P. Govindan
Desalination of brackish water by electrodialysis 42(1982)97

P.K. Narayanan, W.P. Harkare, S.K. Adhikary, N.J. Dave, D.K. Chauhan and K.P. Govindan
Performance of an electrodialysis desalination plant in rural area 54(1985)145

M.R. Adiga, S.K. Adhikary, P.K. Narayanan, W.P. Harkare, S.D. Gomkale and K.P. Govindan
Performance analysis of photovoltaic electrodialysis desalination plant at Tanote in Thar desert 67(1987)59

S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan
Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater desalination by electrodialysis 69(1988)261

S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
Desalination of brackish water of higher salinity by electrodialysis 84(1991)189

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

Narebska A.

A. Narebska, S. Koter and W. Kujawski
Ions and water transport across charged Nafion membranes. Irreversible thermodynamics approach 51(1984)3

Nasrat A. H.

A.H. Nasrat and T.V. Balakrishnan
Features of desalination plants in semi-arid areas 30(1979)187

Nasser G.

L. Cavalieri and G. Nasser
Seawater desalination with very low energy consumption 44(1983)143

Nassif Y. H.

I.M.R. Jamjoom, Y.H. Nassif, R.T. Heizer and A.R. Khan
Saudi Arabian-U.S. joint agreement for technical cooperation in desalination 30(1979)247

Natale O. E.

O.E. Natale
Optimal cooling towers management for zero discharge 44(1983)167

Natu G. L.

G.L. Natu, H.D. Goghari and S.D. Gomkale
Solar distillation plant at Awania, Gujarat, India 31(1979)435

Nawar S. M.

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

Nawayseh N.K.

N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi
A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan 109(1997)277

Nazir M.

H.C. Simpson, G.C. Beggs and M. Nazir
Evaporation of butane drops in brine 15(1974)11

Neal J.

J. Neal
Wastewater reuse studies and trials in Canberra 106(1996)399

Nebbia G.

G. Nebbia and G.N. Menozzi
Early experiments on water desalination by freezing 5(1968)49

G. Nebbia, R. Di Menza and L. Pierazzi
Optimization study on the coupling of a low-temperature ROVI reactor with a desalination plant 5 suppl.(1969)419

Nechushtan J.

U. Rosenthal, J. Nechushtan, A. Kedem, D. Lancet and M.A. Frommer
An apparatus for studying the mechanism of membrane formation 9(1971)193

Needham D. F.

W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham
Desalination of non-chlorinated surface seawater using TFCR membrane elements 70(1988)47

Neel J.

Q.T. Nguyen, Y. Jyline and J. Neel
Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid 36(1981)277

J. Néel, P. Aptel and R. Clément
Basic aspects of pervaporation 53(1985)297

P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel
Mass transfer analysis of pervaporation through an ion exchange membrane 90(1993)259

Neelakantan P.S.

A.G. Turner, P.S. Neelakantan and N. Gajendran
A novel new water source for Madras Fertilisers Ltd. 98(1994)285

Neethling J. B.

R. Cheng, J. Glater, J.B. Neethling and M.K. Stenstrom
The effects of small halocarbons on RO membrane performance 85(1991)33

Nefedov O. M.

O.M. Nefedov
General aspects of water re-use in the USSR 81(1991)282

Negishi A.

T. Hakuta, A. Negishi, T. Goto, J. Kato and S. Ishizaka
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part I: Experimental results 21(1977)11

Negishi Y.

H. Ohya, A. Hakamaya, Y. Hiraoka and Y. Negishi
Theoretical studies on the separation of different ionic species of the same charge sign using cascaded electrodialysis with reflux 94(1993)167

Negri E.

S.N. Gaeta, E. Petrocchi, E. Negri and E. Drioli
Chlorine resistance of polypiperazineamide membranes and modules 83(1991)383

Negrini R.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

Nehus H. E.

A.L. Smith, D.P. Logan, H.E. Nehus and M.L. Delitsky
Elimination of mineral acid dosing to control water formed scale in brackish water RO systems 54(1985)277

Nemas M.

A. Livni, M.A. Kraus, M. Nemas and M.A. Frommer
A miniature reverse osmosis/ultrafiltration system 24(1978)305

Nemeth J.E.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Neplenbroek A. M.

A.M. Neplenbroek, D. Bargeman and C.A. Smolders
The stability of supported liquid membranes 79(1990)303

Nerell D. C.

D.C. Nerell, J.A. Statton and G. Borsteins
Baja California desalination project. Feasibility study report: Large scale dual purpose hybrid desalination plant 88(1992)123

Nessim R.B.

S.K. Hamdona, R.B. Nessim and S.M. Hamza
Spontaneous precipitation of calcium sulphate dihydrate in the presence of some metal ions 94(1993)69

Newman J. M.

R.E. Kesting, J.M. Newman, K.T. Nam and J.F. Ditter
Dry-RO membranes from blends of ionogenic and nonionogenic polymers 46(1983)343

Newman P.

P. Newman and M. Mouritz
Principles and planning opportunities for community scale systems of water and waste management 106(1996)339

Newman R.B.

R.B. Newman
Professional responsibility in the desalting industry 20(1977)81

Newson I. H.

P.T. Walker, I. Newson and K.D.B. Johnson
Development of direct contact flash distillation concepts 2(1967)196

I.H. Newson and T.D. Hodgson
The development of enhanced heat transfer condenser tubing 14(1974)291

Newton E. H.

E.H. Newton and J.D. Birkett
Summary report on survey of materials behavior in multistage flash distillation plants 6(1969)229

J.D. Birkett and E.H. Newton
Present trends in materials selection and performance in multi-stage flash desalination units 38(1981)207

Neytzell-de Wilde F. G.

O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde
The treatment of industrial effluents with high salinity and organic contents 67(1987)395

F.G. Neytzell-de Wilde
Demineralization of a molasses distillery waste water 67(1987)481

F.G. Neytzell-de Wilde
Recovery of lignosulphonate from a calcium bisulphite pulp mill effluent by ultrafiltration 67(1987)495

F.G. Neytzell-de Wilde, C.A. Buckley and M.P.R. Cawdron
Dynamically formed hydrous zirconium (IV)oxide/polyacrylic membranes: low pressure formation. high pressure evaluation 70(1988)121

Ng N. K.

T. Hodgkiess, N.K. Ng and P. Argyropoulos
The corrosion behaviour of a number of materials exposed to bromine-containing environments 55(1985)229

Nguyen M. H.

S.E. Berry and M.H. Nguyen
High rate ultrafiltration of soymilk 70(1988)169

Nguyen Q. T.

Q.T. Nguyen, Y. Jyline and J. Neel
Concentration of cupric and nickel ions by complexation-ultrafiltration. Synergic effect of succinic acid 36(1981)277

P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel
Mass transfer analysis of pervaporation through an ion exchange membrane 90(1993)259

Nguyen T. D.

T.D. Nguyen and B.A. Solomon
New one-step process for preparation of microporous composite polysulfone/polyurethane hollow-fiber membranes 90(1993)3

Nicolas L.

Y. Trudelle and L. Nicolas
Study of the outer dense layer of cellulose acetate membranes used in reverse osmosis (in French) 4(1968)198

R. Dick and L. Nicolas
Composite reverse osmosis membranes prepared from polyvinyl alcohol and toluene diisocyanate (in French) 17(1975)239

Nicolas S.

I. Boulanouar, S. Nicolas and B. Bariou
Ultrafiltration and reverse osmosis in unstirred batch cell of charged solutes (protein, salts) with total retention 104(1996)83

Nicolayev V.A.

V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range 25(1978)269

Nicoletti J.

F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
Particle motion in a laminar slit flow: a fundamental fouling study 47(1983)221

Niefind H. J.

H. Moonen and H. J. Niefind
Alcohol reduction in beer by means of dialysis 41(1982)327

Nielsen K.

E. Oklejas, I. Moch and K. Nielsen
Low cost incremental seawater plant capacity increase by coupling advanced pumping and RO technologies 102(1995)189

Nielsen see Kofod-Nielsen W. I

W.K. Nielsen, R.F. Madsen and O.J. Olsen
Experience with plate-and-frame ultrafiltration and hyperfiltration systems for desalination of water and purification of waste water 32(1980)309

W.K. Nielsen and R.F. Madsen
Use of thin-channel systems for ultrafiltration and hyperfiltration 34(1980)113

W.K. Nielsen and S. Kristensen
The application of thin film composite membranes in plate-and-frame systems for water purification 38(1981)383

W.K. Nielsen and S. Kristensen
The prospects of water removal by hyperfiltration using thin film composite membranes 41(1982)277

W.K. Nielsen
Experience with desalination of sea and brackish water using minimum pretreatment and high temperature 46(1983)67

Nieszen W.

W. Nieszen
Verification of design criteria, experience and results obtained with the plate module line at DROP, Kuwait 63(1987)247

Nijhawan R. K.

A.A. Al-Owais, R.K. Nijhawan and P.K. Budhiraja
Operational experience of once through MSF desalination units 73(1989)327

Niketic-Aleksic G.

G. Niketic-Aleksic and M.M. Jaksic
Application of selective membranes in grape juice stabilization 35(1980)317

Nikitin J. G.

V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash
Heat transfer in film-type evaporator with profiled tubes 74(1989)363

Nikolsky B. F.

G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov
Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis 46(1983)171

Nikonenko V.V.

V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko
Prediction of the behavior of long electrodialysis desalination channels through testing short channels 107(1996)245

N.D. Pismenskaya, E.V. Laktionov, V.V. Nikonenko and V.I. Zabolotsky
Choosing the electrodialyzer design and hydraulic modes for demineralization of dilute solutions 108(1996)149

V.I. Zabolotsky, V.V. Nikonenko, N.D. Pismenskaya and A.G. Istoshin
Electrodialysis technology for deep demineralization of surface and ground water 108(1996)179

Nilsson J. L.

K.M. Persson and J.L. Nilsson
Fouling resistance models in MF and UF 80(1991)123

Nimura Y.

T. Ukai, Y. Nimura, K. Hamada and H. Matsui
Development of one pass sea water reverse osmosis module "Hollosep" 32(1980)169

H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai
Single-pass desalination of high salinity seawater with reverse osmosis 38(1981)441

Ninic N.

N. Ninic, M. Novakovic, S. Dimitrijevic and S. Savovic
Desalination with a reversible flashing process 89(1993)263

Nishimoto W.

W. Nishimoto and J.-I. Sakuma
Revaluation of the once-through type flash distillation plant 14(1974)369

W. Nishimoto
RF-FF VTE evaporator 22(1977)1

Nishimura K.

K. Kawamura, K. Nishimura and Y. Magara
Coliphage rejection under ultramembrane filtration 106(1996)89

Nishino J.

S. Muramoto and J. Nishino
An advanced purification system combining ozonation and BAC, developed by The Bureau of Waterworks, Tokyo Metropolitan Government 98(1994)207

Nishinoiri K.

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Nishiyama E.

N. Lior and E. Nishiyama
The effect of gas bubbles on flash evaporation 45(1983)231

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

N. Lior and E. Nishiyama
Some experiments on flash evaporation enhancement by electrolytically generated bubbles 100(1995)71

Nita K.

K. Nita, K. Numata, S. Gotoh and M. Matsui
Application of a chlorine-resistant polyamide RO membrane with a hollow fiber configuration 96(1994)33

Nöel C.

J.L. Halary, C. Noel and L. Monnerie
Physicochemical processes during fabrication of cellulose acetate membranes. Standards for performance optimization. I. Dopes containing aqueous solutions of inorganic salts (in French) 13(1973)251

J. Vinit, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes research of criteria for optimizing membrane performance. II. Influence of cellulose diacetate chain hydration on the effect of heat treatment 15(1974)267

M. Guillotin, C. Lemoyne, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes. Research of criteria for optimizing membrane performance. IV. Cellulose diacetate-acetone-organic additive casting solutions 21(1977)165

J.L. Halary, C. Noël and L. Monnerie
Analysis of transport phenomena in cellulose diacetate membranes. II. Pressure effects on permeability characteristics in reverse osmosis 27(1978)197

J.L. Halary, C. Nöel and L. Monnerie
Analysis of transport phenomena in cellulose diacetate membranes. IV. Dependence of membrane desalination properties on annealing temperature: a molecular analysis 32(1980)65

C. Friedrich, A. Driancourt, C. Noël and L. Monnerie
Asymmetric reverse osmosis and ultrafiltration membranes prepared from sulfonated polysulfone 36(1981)39

Noev N.V.

L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev
Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold 105(1996)159

Noguchi N.

N. Noguchi, S. Sato, T. Imatake, T. Matsuhara and T. Hamada
Prevention of scale and corrosion on flash evaporators 5 suppl.(1969)879

Nojiri Y.

Y. Nojiri and K. Fujii
Utilization of cement concrete as an evaporator shell material 19(1976)45

Y. Tazawa, Y. Nojiri and K. Fujii
Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities 22(1977)111

Noma T.

S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno
Reverse osmosis membranes from aromatic polymers 21(1977)183

Nomani A. A.

P.C. Mayankutty, A.A. Nomani and T.S. Thankachan
Monitoring of organic compounds in feed and product water samples from MSF plants in the eastern coast of Saudi Arabia 74(1989)243

P.C. Mayan Kutty, A.A. Nomani and T.S. Thankachan
Carry over of some high molecular weight organics from seawater to MSF distillates 97(1994)401

Nomura H.

H. Nomura, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by composite charged membranes 29(1979)239

J.-Y. Chen, H. Nomura and W. Pusch
Temperature dependence of membrane transport parameters in hyperfiltration 46(1983)437

Nomura M.

O. Kuroda, S. Takahashi and M. Nomura
Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer 46(1983)225

Nomura T.

S. Kimura, T. Nomura and G. Ikeda
Desalination by the newly developed reverse osmosis module 22(1977)263

T. Nomura and S. Kimura
Properties of dynamically formed membranes 32(1980)57

S. Kimura and T. Nomura
Purification of high temperature water by the reverse osmosis process 38(1981)373

Nooijen W. F. J. M.

W.F.J.M. Nooijen and J.W. Wouters
Optimizing and planning of seawater desalination 89(1992)1

Noordegraaf D. A.

D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn
Preparation and properties of a composite charged membrane 41(1982)249

Nooy P. F. C.

R. de Boer and P.F.C. Nooy
Concentration of raw whole milk by reverse osmosis and its influence on fat globules 35(1980)201

Nordin S.

S. Nordin
In situ corrosion study of stainless steels in an MSF desalting plant 38(1981)151

S. Nordin
Studies on stainless steels for service in desalination plants 44(1983)255

S. Nordin, B. Ericsson and B. Wallen
Optimization of high pressure piping in reverse osmosis plants 55(1985)247

S. Nordin and J. Olsson
Corrosion engineering of high pressure piping in RO-plants 66(1987)235

Nordström J.

J. Nordström and J. Olsson
Stainless steel for high pressure piping in SWRO plants. Are there any options? 97(1994)213

Noshita M.

M. Noshita
Reverse osmosis seawater desalination for power plant 96(1994)359

Nosoko T.

K. Ohshiro, T. Nosoko and T. Nagata
A compact solar still utilizing hydrophobic poly(tetrafluoroethylene) nets for separating neighboring wicks 105(1996)207

Novakovic M.

N. Ninic, M. Novakovic, S. Dimitrijevic and S. Savovic
Desalination with a reversible flashing process 89(1993)263

Novalic S.

S. Novalic, J. Okwor and K.D. Kulbe
The characteristics of citric acid separation using electrodialysis with bipolar membranes 105(1996)277

Novikov E. P.

V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novikov and V.I. Tkach
Prevention of scale formation in distillation desalination plants by means of seeding 1(1966)50

F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience 1(1966)165

V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo
Test of the desalting flash pilot plant with recirculating seed 5(1968)34

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Nozoye H.

H. Yanagishita, H. Nozoye and T. Nakane
Preparation of 6FDA-based polyimide composite membranes by CVDP process 90(1993)55

Nuijens P. G. J. M.

W.W. Focke and P.G.J.M. Nuijens
Velocity profile caused by a high porosity spacer between parallel plates (membranes) 49(1984)243

Numata K.

K. Nita, K. Numata, S. Gotoh and M. Matsui
Application of a chlorine-resistant polyamide RO membrane with a hollow fiber configuration 96(1994)33

S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino
New disinfection method in RO seawater desalination systems 96(1994)191

N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi
The effect of heavy metal ions on the oxidation of cellulose triacetate membranes 96(1994)431

A. Kumano, Y. Matsui, K. Numata, N. Fujiwara, H. Iwahashi and M. Nagai
Performance change formula of cellulose triacetate hollow fiber RO membranes due to oxidation and hydrolysis 96(1994)451

Nunge R.J.

R.J. Nunge and L.R. Adams
Reverse osmosis in laminar flow through curved tubes 13(1973)17

Nusbaum I.

K.D. Vos, I. Nusbaum, A.P. Hatcher and F.O. Burris, Jr.
Storage, disinfection, and life of cellulose acetate reverse osmosis membranes 5(1968)157

Nyström M.

M. Nyström and M. Lindström
Optimal removal of chlorolignin by ultrafiltration achieved by pH control 70(1988)145

M. Nyström
Concentration by UF of hazardous effluents extracted into emulsions from water solutions; examples with aniline and azobenzene 81(1991)117

M. Nyström, K. Ruohomäki and L. Kaipia
Humic acid as a fouling agent in filtration 106(1996)79

O'Donnell J.

A.J. Rachwal, J. Khow, J.S. Colbourne and J. O'Donnell
Water treatment for public supply in the 1990's — A role for membrane technology? 97(1994)427

O'Leary D. A.

D.L. Brining, W.C. Lester, W.N. Jessee, D.A. O'Leary, S. Bourgeois and M.S.A. Salam
Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region 39(1981)255

O'Meara J. W.

J. W. O'Meara
Current status of the desalting program in the United States of America 14(1974)239

O'Neill J. J.

M.H. Auerbach, J.J. O'Neill, R.A. Reimer and S.W. Walinsky
Foam control additives in MSF desalination 38(1981)159

S.W. Walinsky, B. J. Morton and J.J. O'Neill
Structure/performance relationships of high-temperature MSF scale control additives 38(1981)203

Oba O.

T. Okada and O. Oba
Recycling of waste water from buildings by application of membrane technology 98(1994)335

Obermeyer H. D.

H.D. Obermeyer, U. Kulozik and H.G. Kessler
Controlled deposit formation to influence the retention of solutes in reverse osmosis and ultrafiltration 90(1993)161

Obermoller H. R.

D.A. White, R. Labayru, H.R. Obermoller and X. Deryde
The application of inorganic membranes to electrodialysis processes 84(1991)177

Obiya N.

N. Obiya
Study of one pass sea water reverse osmosis with 21,000 gpd capacity 22(1977)457

Oda Y.

Y. Oda and T. Yawataya
Neutrality-disturbance phenomenon of membrane-solution systems 5(1968)129

Odone G.

A. De Maio, F. Fioravanti and G. Odone
The role of consultant engineers on personnel training and desalination plant operation 30(1979)439

F. Fioravanti, D. Falleni, G. Odone and A. De Maio
Design construction and start up of a 1 migpd desalination plant MSF type and two 95 tons/h steam boilers in Zuara, Libia 31(1979)155

A. De Maio, G. Odone, E. Palmisano and R. Zannoni
An advanced method for sea water chemical treatment in MSFD plants 31(1979)321

A. De Maio, F. Fioravanti and G. Odone
A new idea for training operators 39(1981)483

R. Zannoni, A. de Maio, G. Odone and G. Coliva
Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants 45(1983)337

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

Oe T.

T. Oe, H. Koide, H. Hirokawa and K. Okukawa
Performance of membrane filtration system used for water treatment 106(1996)107

Offermann H.

R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
An assessment of different scale control methods 47(1983)49

Ogasawara H.

H. Ogasawara, Y. Kunisada, H. Kaneda and M. Hirai
Desalination in the reuse of industrial waste water 23(1977)113

G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama
Advanced treatment of secondary sewage effluent by membrane process 39(1981)423

M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka
Small-scale sewage plant experiment by pretreatment and methanization of suspended solid 98(1994)217

Ogawa S.

T. Matsuda, S. Ogama and Y. Onoue
Demineralization of sea water by electrodialysis 3(1967)295

Ogawa Y.

Y. Ogawa and S. Suzuki
On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis 42(1982)57

Ogino Y.

M. Nagai, H. Iwahashi, Y. Hayashi and Y. Ogino
The behavior of an oxidizing/reducing agent in seawater 96(1994)291

N. Fujiwara, K. Numata, A. Kumano, Y. Ogino, M. Nagai and H. Iwahashi
The effect of heavy metal ions on the oxidation of cellulose triacetate membranes 96(1994)431

Ohgaki S.

G.T. Seo, Y. Suzuki and S. Ohgaki
Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse 106(1996)39

Ohkuma N.

N. Ohkuma, M. Ohnishi and Y. Okuno
Waste water recycling technology using a rotary disk module 98(1994)49

M. Murata, H. Kimuro, N. Kanekuni, N. Ohkuma, H. Ogasawara and T. Fujioka
Small-scale sewage plant experiment by pretreatment and methanization of suspended solid 98(1994)217

Ohlemann B.

G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal
MEDA: A new thermal concept for desalting plants 38(1981)147

B. Ohlemann and D.K. Emmermann
Operating experience and performance data of an advanced barge-mounted VTE/VC seawater desalination plant 45(1983)39

Ohlson I.

I. Ohlson, G. Trägårdh and B. Hahn-Hägerdal
Evaluation of UF and RO in a cellulose saccharification process 51(1984)93

Ohmori H.

S. Iwai, H. Ohmori and T. Tanaka
An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon 23(1977)29-36, Err. 25(1978)215

S. Iwai, T. Kitao, H. Ohmori and K. Inujima
Reuse of drainage from an office building 23(1977)171-181, Err. 25(1978)215

Ohnishi M.

N. Ohkuma, M. Ohnishi and Y. Okuno
Waste water recycling technology using a rotary disk module 98(1994)49

Ohsaki T.

E. Oikawa and T. Ohsaki
Properties of reverse osmosis membranes prepared from poly(4-vinyl pyridine)-acrylonitrile copolymer and the partially quaternized copolymer 25(1978)187

Ohshiro K.

K. Ohshiro, T. Nosoko and T. Nagata
A compact solar still utilizing hydrophobic poly(tetrafluoroethylene) nets for separating neighboring wicks 105(1996)207

Ohsumi Y.

T. Uragami, Y. Ohsumi and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. 40. Formation conditions of finger-like cavities of cellulose nitrate membranes 37(1981)293

Ohta K.

Y. Kunisada, K. Ohta, H. Kaneda, M. Hirai and Y. Murayama
Operating experience on RO sea water desalination plant at Chigasaki Laboratory 39(1981)413

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

S. Kubota, K. Ohta, I. Hayano, M. Hirai, K. Kikuchi and Y. Murayama
Experiments on seawater desalination by membrane distillation 69(1988)19

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Membrane distillation with fluoro-carbon membranes 81(1991)107

T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto
Preliminary experiment on seawater pretreatment with UF membranes for RO desalination 93(1993)235

Ohtani M.

D.S. Khumayyis and M. Ohtani
Construction and commissioning of 6 x 23,000 t/d MSF plant, Al Jobail Phase 1 45(1983)155

M. Al-Arrayedh, B. Ericsson and M. Ohtani
Construction and operation of 46,000 m3/day reverse osmosis desalination plant, RA'S Abu Jarjur, Bahrain 55(1985)319

Ohya H.

H. Ohya and S. Sourirajan
Some parametric studies in water desalination by reverse osmosis using porous cellulose acetate membranes 6(1969)153

H. Ohya and Y. Taniguchi
On a temperature correction coefficient for the water flux through reverse osmosis membranes of large scale systems 15(1974)245

H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka
Analysis of reverse osmotic characteristics of American-standard type tubular module 16(1975)235

H. Ohya and Y. Taniguchi
An analysis of reverse osmotic characteristics of ROGA-4000 spiral-wound module 16(1975)359

H. Ohya, S. Kasahara and S. Sourirajan
Application of system analysis in two-stage reverse osmosis process design for water desalination 16(1975)375

H. Ohya
Present status of reverse osmosis in Japan 19(1976)411

H. Ohya
An analysis of reverse osmotic characteristics of B-9 hollow fiber module 21(1977)257

H. Ohya
Present art and status of reverse osmosis and ultrafiltration in Japan 23(1977)223

H. Ohya
An expression method of compaction effects on reverse osmosis membranes at high pressure operation 26(1978)163

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

H. Ohya, K. Yajima and R. Miyashita
Design of reverse osmosis process 63(1987)119

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

J. Zhou, H. Ohya and K. Matsumoto
Several engineering equations in the design of reverse osmosis plants 80(1991)15

H. Ohya
State of the art ultrapure water production in Japan 80(1991)159

K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Membrane distillation with fluoro-carbon membranes 81(1991)107

H. Ohya, A. Hakamaya, Y. Hiraoka and Y. Negishi
Theoretical studies on the separation of different ionic species of the same charge sign using cascaded electrodialysis with reflux 94(1993)167

S.I. Semenova, H. Ohya and K. Soontarapa
Hydrophilic membranes for pervaporation: An analytical review 110(1997)251

Oikawa E.

E. Oikawa and T. Ohsaki
Properties of reverse osmosis membranes prepared from poly(4-vinyl pyridine)-acrylonitrile copolymer and the partially quaternized copolymer 25(1978)187

E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki
Synthesis of poly(2,5-pyridinedicarboxylic acid-alt-hydrazine) and reverse osmosis performance of its membranes 94(1993)25

E. Oikawa, M. Shingai, K. Motomi and T. Aoki
Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol 101(1995)69

Oinuma M.

M. Oinuma, S. Sawada and K. Yabe
New pretreatment systems using membrane separation technology 98(1994)59

Okabe T.

K. Ohta, K. Kikuchi, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Experiments on sea water desalination by membrane distillation 78(1990)177

K. Ohta, I. Hayano, T. Okabe, T. Goto, S. Kimura and H. Ohya
Membrane distillation with fluoro-carbon membranes 81(1991)107

T. Okabe, M. Hirai, K. Ohta, T. Ishii and T. Goto
Preliminary experiment on seawater pretreatment with UF membranes for RO desalination 93(1993)235

Okada K.

Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama
Desalination of high salinity sea water by reverse osmosis (Summary) 46(1983)145

Okada T.

T. Okada and O. Oba
Recycling of waste water from buildings by application of membrane technology 98(1994)335

Okado S.

K. Sato, S. Kobayashi and S. Okado
Desalination and reuse of industrial wastewater by electrodialysis 47(1983)363

Oklejas E.

J. Lozier, E. Oklejas and M. Silbernagel
The hydraulic turbochargerTM: A new type of device for the reduction of feed pump energy consumption in reverse osmosis systems 75(1989)71

E. Oklejas, Jr.
The Hydraulic TurboChargerTM for interstage feed pressure boosting. Impact on membrane performance, permeate quality, and feed pump energy consumption 88(1992)289

M. Silbernagel, T. Kuepper and E. Oklejas
Evaluation of a pressure boosting pump/turbine device for reverse osmosis energy recovery: Extended testing on a seawater desalination system 88(1992)311

E. Oklejas, I. Moch and K. Nielsen
Low cost incremental seawater plant capacity increase by coupling advanced pumping and RO technologies 102(1995)189

Okubo T.

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

Okukawa K.

T. Oe, H. Koide, H. Hirokawa and K. Okukawa
Performance of membrane filtration system used for water treatment 106(1996)107

Okun D.A.

D.A. Okun
Water reclamation and nonpotable reuse: An option for meeting urban water supply needs 106(1996)205

Okuno Y.

N. Ohkuma, M. Ohnishi and Y. Okuno
Waste water recycling technology using a rotary disk module 98(1994)49

Okwor J.

S. Novalic, J. Okwor and K.D. Kulbe
The characteristics of citric acid separation using electrodialysis with bipolar membranes 105(1996)277

Oláh R.

R. Oláh and K. Vadasdi
Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids 67(1987)547

Oldfield J. W.

J.W. Oldfield and B. Todd
Corrosion considerations in selecting metals for flash chambers 31(1979)365

J.W. Oldfield and B. Todd
Corrosion problems caused by bromine formation in MSF desalination plants 38(1981)233

W.S.W. Lee, J.-W. Oldfield and B. Todd
Corrosion problems caused by bromine formation in additive dosed MSF desalination plants 44(1983)209

J.W. Oldfield and B. Todd
The use of stainless steels and related alloys in reverse osmosis desalination plants 55(1985)261

J.W. Oldfield and B. Todd
Vapour side corrosion in MSF plants 66(1987)171

J.W. Oldfield and R.M. Kain
Economic material selection for reverse osmosis desalination plants 84(1991)227

J.W. Oldfield and B. Todd
Environmental aspects of corrosion in MSF and RO desalination plants 108(1996)27

Olieman C.

J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
Characterization of clean and fouled ultrafiltration membranes 68(1988)93

Olivieri A. W.

K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson
City of San Diego potable reuse of reclaimed water: Final results 88(1992)201

Olsen O. J.

W.K. Nielsen, R.F. Madsen and O.J. Olsen
Experience with plate-and-frame ultrafiltration and hyperfiltration systems for desalination of water and purification of waste water 32(1980)309

O. Olsen
Membrane technology in the pulp and paper industry 35(1980)291

O.J. Olsen and U.H. Haagensen
Membrane filtration for the reuse of city waste water 47(1983)257

O.J. Olsen
Membrane filtration as a tool in biotechnical down-stream processing 62(1987)329

Olsson J.

J. Olsson and B. Wallen
Experience with a high molybdenum stainless steel in saline environments 44(1983)241

S. Nordin and J. Olsson
Corrosion engineering of high pressure piping in RO-plants 66(1987)235

J. Olsson and M.L. Erbing
Experiences with a highly alloyed stainless steel in desalination plants and other Arabian Gulf industrial plants 73(1989)267

J.O. Olsson and H.L. Groth
Evaporators made of solid duplex staintess steel. A new approach to reduced costs 97(1994)67

J. Nordström and J. Olsson
Stainless steel for high pressure piping in SWRO plants. Are there any options? 97(1994)213

Oltra F.

F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra
Estudio de viabilidad de una central nuclear de doblo uso para la zona Catalana 5 suppl.(1969)261

Ölund K

G. Trägårdh and K. Ölund
A method for characterization of ultrafiltration membranes 58(1986)187

Omar A.A.

N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi
A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan 109(1997)277

Omar A. M.

A.M. Omar
Simulation of MSF desalination plants 45(1983)65

Onaga Y.

S. Ishizaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna
Technical aspects of desalination in Japan - present and future 5 suppl.(1969)63

Onderdelinden G.

P.J. de Moel, R.F.M. de Gier and G. Onderdelinden
Design of the 50,000 m3/d treatment plants for Qasim, S.A., desalination of brackish water at 99% recovery 55(1985)343

Onkka J.

R.W. Atwater, L. Palmquist and J. Onkka
The West Basin Desalter Project: A viable alternative 103(1995)117

Ono Y.

Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri
Evaluation of toxic substances in effluents from a wastewater treatment plant 106(1996)255

Onoue Y.

T. Matsuda, S. Ogama and Y. Onoue
Demineralization of sea water by electrodialysis 3(1967)295

Ophir A.

A. Ophir and N. Nadav
Solar energy as a source for production of power and desalinated water 40(1982)103

A. Ophir
Desalination plant using low grade geothermal heat 40(1982)125

N. Nadav and A. Ophir
Production of electrical power from concentrated brines 40(1982)197

A. Ophir and S. Manor
The Curacao KAE-LT-MED and auxiliary steam turbine project: a model for dual purpose MSF plants replacement 66(1987)33

A. Ophir
Low temperature, multi-effect distillation for cogeneration yielding the most efficient sea water desalination system 84(1991)85

A. Ophir and A. Gendel
Adaptation of the multi-effect distillation (MED) process to yield high purity distillate for utilities, refineries and chemical industry 98(1994)383

Orchard A. C. J.

D. Pepper, A.C.J. Orchard and A.J. Merry
Concentration of tomato juice and other fruit juices by reverse osmosis 53(1985)157

Orcutt J. C.

J.C. Orcutt
Nucleation and growth of ice crystals in secondary refrigerant freezing 7(1969)75

J.C. Orcutt and F.J. Hale
The secondary refrigerant freezing process: A modeling study 7(1970)201

Orde F.K.

E.F. Masters, H.A. Matthews and F.K. Orde
The selection of nuclear power and desalination plants for augmenting existing water reserves 5 suppl.(1969)441

Oren Y.

Y. Oren and Y. Egozy
Studies on polarity reversal with continuous deionization 86(1992)155

Orlov N. S.

N.S. Orlov, I.K. Kuznetsova and A.G. Borodkin
Comparison of different channel constructions and their efficiency in membrane cells 84(1991)223

Oron G.

A. Issar and G. Oron
Water from fossil aquifers as a potential supply source for solar desalination plants on a regional scale 40(1982)25

Orssaud J.

D. Callies, A. Clayer and J. Orssaud
Possibilities of the osmosis process (in French) 4(1968)55

Ortabasi U.

D.S. Sasscer and U. Ortabasi
Ocean thermal energy conversion (OTEC) tugboats for iceberg towing in tropical waters 28(1979)225

Ortiz R. S.

T.M. Fuqua, P.T. Bowen and R.S. Ortiz
Using reclaimed water for shallow aquifer recharge 88(1992)243

Ortiz de Zárate J.M.

J.M. Ortiz de Zárate, L. Peña and J.I. Mengual
Characterization of membrane distillation membranes prepared by phase inversion 100(1995)139

Osada H.

S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
Separation of proteins by charged ultrafiltration membranes 70(1988)191

Oshiyama M.

K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida
Light gauge welded titanium tubes for seawater desalination plants 73(1989)429

K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto
Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets 97(1994)147

Osman H.

H. Osman, A.H. Sultan, A. Radif and S.A. Aziz
Large pumps in power and desalination plants 93(1993)181

Ossiff J.

J. Ossiff
Emerging legal issues in siting desalination facilities in California 87(1992)1

Osta T. K.

T. K. Osta and L.M. Bakheet, Sr.
Pretreatment system in reverse osmosis plants 63(1987)71

Osterholt K.

J. Hapke and K. Osterholt
A test center for thermal seawater desalination plants 30(1979)101

Ostrander N. C.

J.L. Hult and N.C. Ostrander
Harnessing and exporting Antarctic icebergs 29(1979)43

Oswald W. J.

W.J. Oswald
Use of wastewater effluent in agriculture 72(1989)67

Otani Y.

N. Shindo, Y. Otani, G. Inoue and K. Kawazoe
Water treatment by pitch-based activated carbon fiber 98(1994)155

Othmer D. F.

D.F. Othmer
Evaporation for desalination: scale prevention and removal 1(1966)194

D.F. Othmer
Evaporation for desalination. Improved multistage flash (MSF) processes 6(1969)13

D.F. Othmer
Fresh water, energy, and food from the sea and the sun 17(1975)193

Otis J.

F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
Particle motion in a laminar slit flow: a fundamental fouling study 47(1983)221

Ottani S.

C. Castellari and S. Ottani
Optimal conditions for obtaining polymeric membranes in binary systems: a numerical analysis 49(1984)141

C. Castellari and S. Ottani
Phase inversion in plane membranes. I. Computer-aided gravimetric data acquisition and fitting procedures of the desolvation kinetics 69(1988)211

Otten Z. E. H.

A.J.B. Van Boxtel and Z.E.H. Otten
New strategies for economic optimal membrane fouling control based on dynamic optimization 90(1993)363

Ouahes C.

R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff
A hardy, high-yield solar distiller of brackish water 67(1987)43

Ouahes R.

R. Ouahes, C. Ouahes, P. Le Goff and J. Le Goff
A hardy, high-yield solar distiller of brackish water 67(1987)43

Oudendijk C.

L. Montfort and C. Oudendijk
Towage of an iceberg 29(1979)79

Özgen C.

T.G. Somer and C. Özgen
Hydrodynamics of condensate films on fluted tube surfaces. Part I 34(1980)233

T.G. Somer and C. Özgen
Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II 34(1980)249

C. Özgen and H. Gökçe
Hydrodynamic and heat transfer studies on fluted tubes with drainage discs 45(1983)183

C. Özgen and I. Tosun
A theoretical study on hydrodynamics of condensate films over fluted tubes 45(1983)251

A. Büyükyilmaz, C. Özgen and T.G. Somer
Effect of inclination on the heat transfer performance of fluted tubes with and without drainage discs 65(1987)3

Özmen S.

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Pilot plant study of desalination by direct contact heat transfer 13(1973)221

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Heat transfer to an immiscible liquid mixture and between liquids in direct contact 13(1973)231

Pachomova S. A.

Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski
Analysis of the technical and economic data of multi-purpose nuclear plants (in German) 5(1968)201

Pachter M.

M. Pachter and A. Barak
Vacuum freezing vapor compression (Zarchin) process. Present status and future trends 2(1967)358

Paci S.

R. Audinos and S. Paci
Water transport during the concentration of waste zinc sulfate solutions by electrodialysis 67(1987)523

Pacini F.

F. Pacini
Gas turbines in desalination plants 45(1983)281

Pageau L.

W.L. Thayer, L. Pageau and S. Sourirajan
Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes 21(1977)209

Pages M.

C. Bardonnet, R. Brun and M. Pages
A new support for semi-permeable membranes 21(1977)203

Palecek S. P.

S.P. Palecek, S. Mochizuki and A.L. Zydney
Effect of ionic environment on BSA filtration and the properties of BSA deposits 90(1993)147

Pallone A.

W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica and A. Pallone
Spray freezer and pressurized counterwasher for freeze desalination 14(1974)249

Palmisano E.

A. De Maio, G. Odone, E. Palmisano and R. Zannoni
An advanced method for sea water chemical treatment in MSFD plants 31(1979)321

Palmquist L.

R.W. Atwater, L. Palmquist and J. Onkka
The West Basin Desalter Project: A viable alternative 103(1995)117

Pan Lili

Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu
Long-term tests on a model SRO-80-1000 spiral-wound RO prototype 62(1987)233

Panahandeh H.

K.R. Fröhner and H. Panahandeh
An advanced seeding process in saline water conversion 16(1975)261

F. Bulda, K.R. Fröhner, H. Kolbe and H. Panahandeh
The barium sulfate seeding process 21(1977)59

Panayotova T.

I. Dobrevsky, M. Dimova-Todorova and T. Panayotova
Electroplating rinse waste water treatment by ion exchange 108(1996)277

Pancharatnam S .

S. Pancharatnam
Leakage of brine from solar evaporation ponds 11(1972)303

Pandya V. P.

D.J. Mehta, V.P. Pandya and A.V. Rao
Reverse osmosis relevant to India 20(1977)403

R.N. Kapadia and V.P. Pandya
Scanning electron microscopy study on reverse osmosis membranes prepared from Indian cellulosic polymers 34(1980)199

Pangborn J.B.

J.B. Pangborn and A.J. Barduhn
The kinetics of methyl bromide hydrate formation 8(1970)35

Pansini M.

M. Pansini and C. Colella
Dynamic data on lead uptake from water by chabazite 78(1990)287

M. Pansini, C. Colella and M. de'Gennaro
Chromium removal from water by ion exchange using zeolite 83(1991)145

Pantano G.

V. Calabro, G. Pantano, M. Kang, R. Molinari and E. Drioli
Experimental study on integrated membrane processes in the treatment of solutions simulating textile effluents. Energy and exergy analysis 78(1990)257

Panteleev V. I.

V.I. Demkin, Y.A. Tubashov, V.I. Panteleev and Y.V. Karlin
Cleaning low mineral water by electrodialysis 64(1987)367

Panyor L.

L. Panyor and C. Fabiani
Anion rejection in a nitrate highly rejecting reverse osmosis thin-film composite membrane 104(1996)165

Panzeri D.

L. Biondi, D. Panzeri and L. Pierazzi
Le reacteur ROVI: choix de l'élément combustible et problèmes connexes 5 suppl.(1969)311

Papafotiou K.

K. Papafotiou, D. Assimacopoulos and D. Marinos-Kouris
A knowledge based system for the design of RO desalination plants 82(1991)131

Paquet A.

P. Maldague, C. Descamps, W. Debay, A. Paquet, W. Bongard and B. Cox
Production combinée d'électricité et d'eau dessalée a l'aide de réacteurs Vulcain et d'unités LTV: Aspects technico-économiques d'installations de moyenne puissance 5 suppl.(1969)463

Pareek N. K.

N.K. Pareek, A. Aboudher, H.M. Hassan Beck and M.M. Elgarni
Operating experience of MSF desalination plant at the Abu Kammash chemical complex 73(1989)417

Parekh B. S.

A.E. Allegrezza, Jr., B.S. Parekh, P.L. Parise, E.J. Swiniarski and J.L. White
Chlorine resistant polysulfone reverse osmosis modules 64(1987)285

Parent R. H.

D. Elyanow, R.G. Parent and J.R. Mahoney
Parametric tests of an electrodialysis reversal (EDR) system with aliphatic anion membranes 38(1981)549

Parilova O.F.

F.N. Karelin, A.A. Askerniya, M.L. Gril and O.F. Parilova
Salt concentration and recovery from aqueous solutions using pressure-driven membrane processes 104(1996)69

F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova
New solutions for construction of pressure-driven membrane equipment 108(1996)315

Parise P. L.

A.E. Allegrezza, Jr., B.S. Parekh, P.L. Parise, E.J. Swiniarski and J.L. White
Chlorine resistant polysulfone reverse osmosis modules 64(1987)285

Parker J.M.

J.M. Parker and P.D. Ribbins
Privatization of government system 97(1994)313

Parrini G.

A. Chiolle, G. Gianotti, M. Gramondo and G. Parrini
Mathematical model of reverse osmosis in parallel-wall channels with turbulence promoting nets 26(1978)3

Parrini P.

L. Credali, A. Chiolle and P. Parrini
New polymer materials for reverse osmosis membranes 14(1974)137

P. Parrini
Polypiperazinamides: New polymers useful for membrane processes 48(1983)67

Parsi E.J.

E.J. Parsi
Large electrodialysis stack development 19(1976)139

W.A. McRae, E.J. Parsi and G.C. Ganzi
Fresh water from the sea: a 380 cubic meter per day high temperature electrodialysis plant 23(1977)401

Parsons S.A.

J.S. Baker, S.J. Judd and S.A. Parsons
Antiscale magnetic pretreatment of reverse osmosis feedwater 110(1997)151

Pascual F.

F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra
Estudio de viabilidad de una central nuclear de doblo uso para la zona Catalana 5 suppl.(1969)261

Passino R.

G. Boari, C. Merli, R. Passino and G. Tiravanti
Silica transport through charged membranes 15(1974)3

G. Boari, L. Liberti, C. Merli and R. Passino
Exchange equilibria on anion resins 15(1974)145

G. Boari, C. Merli, G. Mossa and R. Passino
Study of the morphology and determination of the transport coefficients for reverse osmosis membranes 16(1975)271

R. Passino, G. Boari, A. Rozzi and G. Tiravanti
Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCI solutions and analysis of boundary layer overpotentials 24(1978)55

L. Liberti, G. Boari and R. Passino
Chloride/sulfate exchange on anion resins. Kinetic investigations. II. Particle diffusion rates 25(1978)123

L. Liberti, G. Boari and R. Passino
Chloride/sulfate exchange on anion resins. Kinetic investigations. Chemical control in selective exchanges 26(1978)181

L. Liberti, A. Pinto and R. Passino
Chloride-sulphate exchange on anion resins, kinetic investigations. VI. Differential exchange rates in diluted systems 29(1979)255

G. Mossa, R. Passino and M. Pegoraro
Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes 34(1980)57

R. Passino, C. Marra, A. Rozzi and G. Tiravanti
Performance evaluation and process design of an electrodialysis plant by overpotential measurements 41(1982)181

L. Liberti, R. Passino and D. Petruzzelli
Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins 41(1982)199

G. Mossa and R. Passino
Uptake of electrolytes by cellulose acetate membranes 46(1983)417

L. Liberti, R. Passino and D. Petruzzelli
Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange 48(1983)55

L. Liberti, R. Passino, M. Santori and G. Boari
Technical and economic trends of sea water desalting in the '90s 55(1985)503

Patel K.G.

K.G. Patel, F.L. Harris and K.C. Channabasappa
Operational experience of reverse osmosis plants at Wrightsville Beach, North Carolina, USA 19(1976)381

Patel P.R.

H.F. Wiegandt, R.L. Von Berg and P.R. Patel
The crossflow piston bed 25(1978)303

Paterson R.

R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson
A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models 17(1975)313

Patocka F.

F. Patocka, S. Fries and H. Timm
RO-module with ultrasonic welded membranes 64(1987)423

Patra R. N.

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Operational experience of reverse osmosis plants for drinking water in Indian villages 65(1987)361

R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani
Water and effluent water treatment using reverse osmosis 67(1987)507

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Management and feasibility of reverse osmosis schemes for rural water supply in India 73(1989)37

Paul D.

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul
Electrochemical characterization of charged membranes and membrane systems 104(1996)19

Paul H.

H. Paul
Recycling of detergents after ultrafiltration of cleaning solutions 41(1982)313

H. Paul
Two-phase ultrafiltration as an economical unit operation for recycling of detergents 47(1983)293

Paul N. J.

A.M. Shams El Din and N.J. Paul
Oxide film thickening on some molybdenum-containing stainless steels used in desalination plants 69(1988)251

Paulson D. J.

B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson
Effects of surface force interactions on an NF/UF membrane 90(1993)107

Pavlova S.

I. Dobrevsky and S. Pavlova
Organic matter removal from natural waters by electrodialysis demineralization 86(1992)43

S. Pavlova and S. Prodanova
Reducing the amount of microorganisms in feed water for membrane demineralization 91(1993)115

Pawlowski L.

L. Pawlowski, J. Barcicki and T.Z. Winnicki
Chemical and physical degradation of some cation-exchange resins used in nitrate recovery from wastewaters 28(1979)243

Peacock H. M.

H.M. Peacock
Operating experiences with mobile distillation plants, with particular reference to the avoidance of calcium sulphate scale 3(1967)280

Pechenick W.

W. Pechenick and C.E. Ennis
Desalination plants using higher steam pressures 5 suppl.(1969)397

C.E. Ennis and W. Pechenick
Organization of large desalination-plant studies 5 suppl.(1969)805

Pegoraro M.

M. Pegoraro and A. Penati
Two component polymer membranes 26(1978)63

G. Mossa, R. Passino and M. Pegoraro
Membrane/water distribution and diffusion of nickel ion in cellulose acetate membranes 34(1980)57

M. Pegoraro and A. Penati
Interaction between water and polytrans-2,5 dimethylpiperazin thiofurazanamide films 48(1983)189

Peinemann K. -V.

D. Fritsch, K.-V. Peinemann and R.-D. Behling
Silicon/non-silicone grafted blend composite membranes for air/vapor separation 90(1993)235

Peled A.

A. Peled and J. Finke
The joint U.S.-Israel desalination project status report and the impact of rising energy costs on the program 40(1982)217

Pelled Z.

Z. Pelled and J. Gaussens
Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C. 1(1966)5

Z. Pelled
Washington and after. Review of the first international symposium on water desalination, Oct. 3-9, 1965, Washington D.C. 1(1966)101

Pelras M.

S. Brunet, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Stress corrosion of austenitic stainless steels in chloride environments (in French) 3(1967)118

G. Boisde, H. Coriou, L. Grall, C. Mahieu and M. Pelras
Etude du comportement de divers matériaux dans l'eau de mer jusqu'à 150°C 5 suppl.(1969)895

Peluffo P.

R. Borsani, P. Bozzini, A. Germanà, P. Peluffo and A. Al Radif
12 migd multistage flash desalination plant. A challenge for the next years 96(1994)325

C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl
Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material 97(1994)53

Peña L.

J.M. Ortiz de Zárate, L. Peña and J.I. Mengual
Characterization of membrane distillation membranes prepared by phase inversion 100(1995)139

M.P. Godino, L. Peña, C. Rincón and J.I. Mengual
Water production from brines by membrane distillation 108(1996)91

Penati A.

M. Pegoraro and A. Penati
Two component polymer membranes 26(1978)63

M. Pegoraro and A. Penati
Interaction between water and polytrans-2,5 dimethylpiperazin thiofurazanamide films 48(1983)189

Penn R. E.

J.K. Beasley and R.E. Penn
Hollow fine fiber vs. flat sheet membranes: A comparison of structures and performance 38(1981)361

Pepinov R.I.

V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range 25(1978)269

Peplow G.

G. Peplow and F. Vernon
Trace metal fouling and cleaning of seawater RO membranes 66(1987)271

Pepper D.

K.D.B. Johnson, J.R. Grover and D. Pepper
Chemical engineering aspects of the reverse osmosis process 2(1967)40

D. Pepper
Membrane life capacity and costs 35(1980)383

D. Pepper
Pretreatment and operating experience on reverse osmosis plant in the Middle East 38(1981)403

D. Pepper, A.C.J. Orchard and A.J. Merry
Concentration of tomato juice and other fruit juices by reverse osmosis 53(1985)157

D. Pepper
RO-fractionation membranes 70(1988)89

D. Pepper
RO for improved products in the food and chemical industries and water treatment 77(1990)55

Pereira N.C.

L.T. Fan, C.L. Hwang, N.C. Pereira, L.E. Erickson and C.Y. Cheng
Systems analysis of dual-purpose nuclear power and desalting plants. Part I. Optimization 11(1972)217

Pérez Castillo J.

J.M. Veza, A. Gómez Gotor and J. Pérez Castillo
Desalination technology in the Canary Islands, 1990 85(1992)147

Perl I.

D. Hasson and I. Perl
Scale deposition in a laminar falling-film system 37(1981)279

Perlman J. L.

W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham
Desalination of non-chlorinated surface seawater using TFCR membrane elements 70(1988)47

T.E. Sulpizio, W.G. Light and J.L. Perlman
Economic and technical factors affecting seawater reverse osmosis process design 74(1989)187

Perona J. J.

J.S. Johnson, Jr., K.A. Kraus, S.M. Fleming, H.D. Cochran, Jr. and J.J. Perona
Hyperfiltration studies XIV. Porous tubes precoated with filteraids as supports for dynamically formed membranes 5(1968)359

J.J. Perona, T.W. Pickel and K.A. Kraus
Hyperfiltration studies XVIII. The optimization of two-stage plants for desalination of brackish waters 8(1970)73

J.J. Perona and R.S. Dillon
Multistage hyperfiltration plants for the desalination of brackish waters 11(1972)149

Perrey H.

H. Perrey and K. Hildenbrand
New heterocycles for ultrafiltration membranes 51(1984)45

Perry M.

M. Perry and C. Linder
Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes 71(1989)233

Persin F.

S. Graillon, F. Persin, G. Pourcelly and C. Gavach
Solving equations simulating the steady-state behavior of the multi-stage flash desalination 107(1996)159

Persson K. M.

K.M. Persson and J.L. Nilsson
Fouling resistance models in MF and UF 80(1991)123

Pervov A. G.

A.G. Pervov
Scale formation prognosis and cleaning procedure schedules in reverse osmosis systems operation 83(1991)77

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov and V.S. Koptev
Treatment of natural water by membranes 105(1996)33

A.G. Pervov
Promoting membrane techniques in Russia 105(1996)105

A.G. Pervov and M.M. Telitchenko
Predictions of biological growth in RO systems and its influence on membrane performance 105(1996)173

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov
Production of quality drinking water with membranes 108(1996)167

Peter S.

S. Peter, N. Hese and R. Stefan
Phenol-selective highly resistant RO membranes made from PVA for the purification of toxic industrial wastes 19(1976)161

A.S. Bal and S. Peter
Development of cord membranes: A new reverse osmosis membrane configuration 46(1983)351

Peters T. A.

T.A. Peters
Desalination and industrial waste water treatment with the ROCHEM Disc Tube Module (DT) 83(1991)159

Peters U.

G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis 47(1983)267

Petersen G.

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind- and solar-powered reverse osmosis desalination units: Description of two demonstration projects 31(1979)501

G. Petersen, S. Fries, J. Mohn and A. Müller
Wind and solar-powered reverse osmosis desalination units: Design, start up, operating experience 39(1981)125

Petersen R. J.

J.E. Cadotte, R.J. Petersen, R.E. Larson and E.E. Erickson
A new thin-film composite seawater reverse osmosis membrane 32(1980)25

R.E. Larson, J.E. Cadotte and R.J. Petersen
The FT-30 seawater reverse osmosis membrane: Element test results 38(1981)473

R.E. Larson, R.J. Petersen and P.K. Eriksson
Test results on FT-30 eight-inch-diameter seawater and brackish water reverse osmosis elements 46(1983)81

J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
Nanofiltration membranes broaden the use of membrane separation technology 70(1988)77

Peterson R. D.

M. Al-Sofi, R.D. Peterson, D.L. Moen, Y. Soejima and H. Sawada
Thermal performance of 10 x 5.2 MIGD MSF plants, Al Jobail Phase II 55(1985)357

Petit Bon P.

S. Munari, A. Bottino, G. Capannelli, P. Moretti and P. Petit Bon
Preparation and characterization of polysulfone-polyvinylpyrrolidone based membranes 70(1988)265

Petkov N.

V. Mavrov, I. Dobrevsky, B. Bonev and N. Petkov
Effect of magnesium hydroxide (or hydrated MgO) formed under alkaline conditions on brackish water pretreatment for reverve osmosis 85(1992)335

Petrey E. Q.

D.R. Sexsmith and E.Q. Petrey
The use of polyelectrolytes for scale control in sea water evaporators 13(1973)89

Petrocchi E.

S.N. Gaeta, E. Petrocchi, E. Negri and E. Drioli
Chlorine resistance of polypiperazineamide membranes and modules 83(1991)383

Petrova I.

V. Mavrov, I. Petrova, K. Davarsky and S. Manolov
Studies of the UF-25-PAN membrane characteristics in the complexing-UF process of Cu, Ni, and Co with polyvinylalcohol 83(1991)289

Petruzzelli D.

L. Liberti, R. Passino and D. Petruzzelli
Chloride/sulphate exchange on anion resins. Kinetic investigation. VIII. Influence of some physico-chemical properties of the resins 41(1982)199

L. Liberti, R. Passino and D. Petruzzelli
Chloride-sulphate exchange on anion resins. Kinetic investigation. IX. Direct, isotopic and reverse exchange 48(1983)55

Pettegrew L. A.

K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson
City of San Diego potable reuse of reclaimed water: Final results 88(1992)201

Petty C.A.

C. Chen and C.A. Petty
Flow characteristics of semipermeable hollow fibers undergoing reverse osmosis 12(1973)281

Pezier J.P.

M. Tribus and J.P. Pezier
Concerning the economic value of experimentation in the design of desalting plants 8(1970)311

Pezzi G.

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

Pfefferkorn O.

O. Pfefferkorn
The economics of the seed slurry process for scale control 19(1976)75

Phillips H. O.

K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor
Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (l) 1(1966)225

Phillips S.V.

S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
Sea water desalination using glass hollow fibre membranes 14(1974)209

Piazza R. W.

W.A. Raja and R.W. Piazza
Reverse running centrifugal pumps as hydraulic power recovery turbines for seawater reverse osmosis systems 38(1981)123

Pibouleau L.

P. Floquet, L. Pibouleau and S. Domenech
Recent trends in process optimization 92(1993)1

Picard M.

M. Picard, G.M. Faup and J.M. Rovel
Advanced treatments. Nice Lingostiere treatment plant 32(1980)149

Pichelin G.

R. Audinos and G. Pichelin
Characterization of electrodialysis membranes by chronopotentiometry 68(1988)251

Pickel T.W.

J.J. Perona, T.W. Pickel and K.A. Kraus
Hyperfiltration studies XVIII. The optimization of two-stage plants for desalination of brackish waters 8(1970)73

Pienaar H. S.

G.L. Dalton, H.S. Pienaar and R.D. Sanderson
Supplemental polymer coatings in reverse osmosis membrane improvement and regeneration 24(1978)235

R.D. Sanderson and H.S. Pienaar
A morphological approach to desalination in hyperfiltration 25(1978)281

Pierazzi L.

L. Biondi, D. Panzeri and L. Pierazzi
Le reacteur ROVI: choix de l'élément combustible et problèmes connexes 5 suppl.(1969)311

G. Nebbia, R. Di Menza and L. Pierazzi
Optimization study on the coupling of a low-temperature ROVI reactor with a desalination plant 5 suppl.(1969)419

Pierrard P. M.

L.J. Mas, P.M. Pierrard, P.A. Prax and J.C. Sohm
Behaviour of an electrodialysis unit cell 7(1970)285

Pierre A.

L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani
Electrokinetic characterization of polyethersulfone UF membranes 109(1997)253

Pilkington N.H.

B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak
An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents 25(1978)45

S.D. Hamann and N.H. Pilkington
An ion-exchange process with thermal regeneration. XIII. Treatment of feedwater containing bicarbonate by adjustment of the pH of the regenerant with carbon dioxide 28(1979)43

N.H. Pilkington and W.G.C. Raper
An ion-exchange process with thermal regeneration. XV. Treatment of sulphite deoxygenated feedwaters 42(1982)255

Pillay V. L.

V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal
Predicted performance profiles along a long-tube cross-flow microfiltration system 71(1989)247

Pillkahn R.

G. Fechner and R. Pillkahn
Use of variable speed pumps for MSF and RO plants 55(1985)461

Pinder K. I.

K.L. Pinder
Direct contact vapor recompression evaporation desalination process. Economic assessment 4(1968)45

Pingel H.

K.W. Böddeker, G. Bengtson, H. Pingel and S. Dozel
Pervaporation of high boilers using heated membranes 90(1993)249

Pinto A.

L. Liberti, A. Pinto and R. Passino
Chloride-sulphate exchange on anion resins, kinetic investigations. VI. Differential exchange rates in diluted systems 29(1979)255

Pismenskaya N.D.

V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko
Prediction of the behavior of long electrodialysis desalination channels through testing short channels 107(1996)245

N.D. Pismenskaya, E.V. Laktionov, V.V. Nikonenko and V.I. Zabolotsky
Choosing the electrodialyzer design and hydraulic modes for demineralization of dilute solutions 108(1996)149

V.I. Zabolotsky, V.V. Nikonenko, N.D. Pismenskaya and A.G. Istoshin
Electrodialysis technology for deep demineralization of surface and ground water 108(1996)179

Pitakowski D.W.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

Pitt P.

D. Jolis, R. Campana, R. Hirano, P. Pitt and B. Mariñas
Desalination of municipal wastewater for horticultural reuse: Process description and evaluation 103(1995)1

Pizzichini M.

C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita
Treatment of waste water from silk degumming processes for protein recovery and water reuse 105(1996)1

C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini
Chromium(III) salts recovery process from tannery wastewaters 108(1996)183

Plassmeier K. G.

K.G. Plassmeier
Entrainment-tests on VIFE 38(1981)153

Platé N. A.

N.A. Platé
Research in membrane technology for desalination and water re-use in the USSR 81(1991)281

Plath P.J.

M. Band, M. Gutman, V. Faerman, E. Korngold, J. Kost, P.J. Plath and V. Gontar
Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers 109(1997)303

Pleass C. M.

D.C. Hicks, G.R. Mitcheson, C.M. Pleass and J.F. Salevan
DELBUOY: Ocean wave-powered seawater reverse osmosis desalination system 73(1989)81

D.C. Hicks, W.A. Fearn, C.M. Pleass and D. Staples
Development, testing and the economics of a composite/plastic seawater reverse osmosis pump 73(1989)95

Plock C. E.

R.T. Heizer and C.E. Plock
Reverse osmosis to achieve water control and recycle 20(1977)61

Ployart R.

J.C. Deronzier, F. Lauro and R. Ployart
Solar desalination: Prototype "Pithon" a special solar multiple-effect distiller 39(1981)117

Plummer H. K.

H.K. Plummer, Jr., C.D. Melvin and E. Eichen
Preparative techniques for the determination of reverse osmosis membrane structure by electron microscopy 15(1974)93

J.E. Anderson, M.E. Heyde and H.K. Plummer, Jr.
Irreversible fouling caused by plasticization of asymmetric reverse osmosis membranes 37(1981)307

Pnueli D.

D. Pnueli and G. Grossman
A mathematical model for the flow in an electrodialysis cell 6(1969)303

D. Pnueli and G. Grossman
A mathematical model for the concentration field in an electrodialysis cell 7(1970)297

D. Pnueli
The shape of the cell and the velocity field in electrodialysis desalination 7(1970)309

D. Pnueli and G. Iddan
Heat and mass transfer in condensation on the surface of a moving fluid in the presence of non-condensible gas with suction at the interface 9(1971)285

D. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to horizontal flows 33(1980)163

M. Bouscher, D. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows 36(1981)307

Pnueli P.

M. Bouscher, P. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients 49(1984)17

Podall H.E.

W.S. Gillam and H.E. Podall
Recent developments on the reverse osmosis process for desalination 9(1971)201

Podbereznyi V. I.

V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin
Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design 45(1983)15

V.I. Podbereznyi, J.K. Smirnov and J.V. Putilin
Some aspects of the development and operation of the desalination installations with horizontal-tube thin-film evaporators 73(1989)447

V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny
Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations 81(1991)367

V.V. Barinov, V.L. Podbereznji, I.D. Mogilner and V.F. Barinov
The use of a qualitative method of control for some process parameters of distillation desalting plants 88(1992)179

Podbereznyi V. L.

J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
Operating experience of desalination units in Schevchenko 45(1983)167

O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin
Inhibition efficiency of scale formation by chemical additives 74(1989)355

V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash
Heat transfer in film-type evaporator with profiled tubes 74(1989)363

V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi
Heat exchange at dropwise condensation in heat exchangers of desalination plants 74(1989)373

V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub
Influence of spray density on coefficient of gas dynamic resistance for tube bundles of different configuration 74(1989)383

V.V. Ilyushchenko, V.L. Podbereznyi and S.I. Golub
Interaction of spraying liquid and vapour in horizontal tube film evaporators 74(1989)391

O.D. Linnikov, V.L. Podbereznyi and I.V. Rodina
Inhibition of scale formation from natural salt waters. Inhibitor effect on chemical composition of the forming scale 82(1991)359

V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov
Floating nuclear desalination plant AFWS-40 89(1992)21

O.D. Linnikov, V.L. Podbereznyi, E.A. Anokhina and O.V. Guseva
Efficiency of two scale prevention methods for desalting Caspian seawater 89(1993)311

O.D. Linnikov and V.L. Podbereznyi
Prevention of sulfate scale formation in desalination of the Aral Sea water 105(1996)143

J.V. Putilin, V.L. Podbereznyi and V.G. Rifert
Evaporation heat transfer in liquid films flowing down horizontal smooth and longitudinally profiled tubes 105(1996)165

Podesta S.

A. Husain, D.M.K. Al-Gobaisi, A. Hassan, A. Kesou, A. Kurdali and S. Podesta
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part II: Optimization and control 92(1993)43

Pohland H. W.

H.W. Pohland
Seawater desalination and reverse osmosis plant design 32(1980)157

H.W. Pohland, A.B. Hamida and K. Chida
Reliable supply of drinking water through use of high performance B-10 "TWIN" permeators. A one year case history at Das Island, UAE 96(1994)303

Polan N. W.

N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio
Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand 38(1981)223

Polla M.

M. Bertuzzi, M. Polla and P. Tiraboschi
Developments in vertical tube evaporation 52(1985)135

Pollet B.

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Polyakov S.V.

V.S. Polyakov and S.V. Polyakov
On the calculation of reverse osmosis plants with spiral-wound membrane elements 104(1996)215

Polyakov V.S.

V.S. Polyakov and S.V. Polyakov
On the calculation of reverse osmosis plants with spiral-wound membrane elements 104(1996)215

Polyanskaya N. B.

Y.I. Dytnersky, K.A. Volcheck and N.B. Polyanskaya
Separation of multicomponent solutions using reagent ultrafiltration 81(1991)273

Pontek R. S.

G.A. Miller and R.S. Pontek
Case study: Martin County, Florida. "A utility's experience developing a new reverse osmosis treatment system" 87(1992)249

Pope A.

A. Pope
Terradynamics as applied to ice 29(1979)17

Popplewell J. M.

N.W. Polan, M.A. Heine, J.M. Popplewell and C.J. Gaffoglio
Erosion-corrosion resistance of copper alloy C72200 in sea water containing suspended sand 38(1981)223

Poranek A.

A. Poranek and T. Winnicki
Oxygenation phenomena as a function of sintered polymer structure of air diffusers 48(1983)85

Porteous A.

A. Porteous
A low temperature model for equilibration rates in flashing-flow and its design implications 6(1969)337

A. Porteous
The design of a prefabricated solar still for the island of Aldabra 8(1970)93

Porter J. J.

J.J. Porter and G.A. Goodman
Recovery of hot water, dyes and auxiliary chemicals from textile wastestreams 49(1984)185

J.J. Porter and Shuzhong Zhuang
Performance and fouling of inorganic tubular microfilters 107(1996)203

Porter M. C.

H.W. Ballew and M.C. Porter
Selection of microporous membranes for optimum separations 34(1980)3

Posey F. A.

F.A. Posey and E.G. Bohlmann
Pitting of titanium alloys in saline waters 3(1967)269

R.E. Meyer, M.C. Banta, P.M. Lantz and F.A. Posey
Rapid batch and continuous electroanalysis for the chloride ion 9(1971)333

R.E. Meyer, F.A. Posey and P.M. Lantz
An electrochemical method for monitoring the oxygen content of aqueous streams at the part-per-billion level 11(1972)329

Posnansky M.

R. Kriesi and M. Posnansky
Operation experience with solar powered 10 m3 per day MSF-plant in Kuwait and results of upscaling experiments 45(1983)371

M. Posnansky
Technical and economical aspects of solar desalination with particular emphasis on solar pond powered distillation plants 67(1987)81

Potapkina E.N.

A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina
Small-waste technology of processing industrial waste water on the basis of thermal demineralization 108(1996)361

Potestà A.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

Potts D. E.

D.E. Potts, R.C. Ahlert and S.S. Wang
A critical review of fouling of reverse osmosis membranes 36(1981)235

Potts J. E.

J.E. Potts
A proposal to organize membrane treatment capital costs 88(1992)321

M.D. Miller and J.E. Potts
Membrane treatment is versatile — A single treatment facility producing boiler feed, food processing water, and drinking water 102(1995)313

Pötzschke M.

M. Pötzschke and M.B. Rockel
Corrosion resistance of stainless steels and nickel alloys in artificial sea water 44(1983)295

M. Pötzschke, M.B. Rockel and G. Rudolph
The effect of iron (pick-up) on sea water corrosion properties of welded CuNilOFe steel compounds 55(1985)281

Pourcelly G.

G. Pourcelly, M. Boudet-Dumy, A. Lindheimer and C. Gavach
Transport of proton in polymeric ionic exchange membranes in relation with the dissociated sorbed acid 80(1991)193

D. Raucq, G. Pourcelly and C. Gavach
Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane 91(1993)163

M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui
Chronopotentiometric response of a cation exchange membrane in contact with chromium(III) solutions 105(1996)219

S. Graillon, F. Persin, G. Pourcelly and C. Gavach
Solving equations simulating the steady-state behavior of the multi-stage flash desalination 107(1996)159

Y. Lorrain, G. Pourcelly and C. Gavach
Transport mechanism of sulphuric acid through an anion exchange membrane 109(1997)231

Pozdniakova S. A.

O.I. Martynova, L.G. Vasina and S.A. Pozdniakova
Dissociation constants of certain scale forming salts 15(1974)259

Pozzi A.

F. Bellucci, E. Drioli and A. Pozzi
Flow regimes in an unstirred discontinuous hyperfiltration process: comparison between theoretical and experimental results 16(1975)287

Prabhakar S.

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Operational experience of reverse osmosis plants for drinking water in Indian villages 65(1987)361

R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani
Water and effluent water treatment using reverse osmosis 67(1987)507

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Management and feasibility of reverse osmosis schemes for rural water supply in India 73(1989)37

P.K. Tewari, S. Prabhakar and M.P.S. Ramani
Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India 79(1990)85

Prajapati M. N.

M.N. Prajapati, P.M. Gaur and B.D. Dasare
Water-softening by continuous counter-current ion-exchange single column technique 48(1983)281

M.N. Prajapati, P.M. Gaur and B.D. Dasare
Brackish water desalination by a continuous counter-current ion exchange technique 52(1985)317

Prakash T.L.

A.U. Malik, T.L. Prakash and I. Andijani
Failure evaluation of desalination plants-some case studies 105(1996)283

Praptowidodo V.S.

C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang
Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing 93(1993)273

Prasanthi H.

S. Vigneswaran, S. Boonthanon and H. Prasanthi
Filter backwash water recycling using crossflow microfiltration 106(1996)31

Prats D.

D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter
Alicante University, closed water cycle, reverse osmosis and water treatment plants 109(1997)315

Pratt D. C. F.

D.C.F. Pratt
The Courtraulds desalination process 42(1982)37

Prausnitz J.M.

T. Hakuta, T.J. Edwards and J.M. Prausnitz
Vapor-liquid equilibria of some pollutants in aqueous and saline solutions. Part II: Correlation for dilute weak electrolytes in aqueous buffered solutions 21(1977)23

Prax P. A.

L.J. Mas, P.M. Pierrard, P.A. Prax and J.C. Sohm
Behaviour of an electrodialysis unit cell 7(1970)285

Prenosil J. E.

J.E. Prenosil and T. Hediger
Scale-up of membrane fixed enzyme reactors: Modelling and experiments 53(1985)265

Price K.

S. Hightower, K. Price and L. Henthorne
The US Bureau of Reclamation's research programs in water treatment and desalting technologies 99(1994)201

Price M.K.

T.H. Bagwell, Jr. and M.K. Price
The Interagency Consortium for Desalination and Membrane Separation Research 99(1994)195

Price M.T.

J.W. Carter, G. Psaras and M.T. Price
Effect of precipitating media on the performance of porous cellulose acetate reverse osmosis membranes 12(1973)177

Priel M.

P. Glueckstern and M. Priel
Optimized brackish water desalination plants with minimum impact on the environment 108(1996)19

Pritchard A.M.

C.E. Austing, A.M. Pritchard and N.J.M. Wilkins
The formation and properties of Al/Mg scales on Al heat-exchange surfaces in desalination plant 12(1973)251

Pritchard C. L.

A.J. Crerar, R.E. Low and C.L. Pritchard
Wave powered desalination 67(1987)127

A.J. Crerar and C.L. Pritchard
Wavepowered desalination: Experimental and mathematical modelling 81(1991)391

Probstein R. F.

J. Schwartz and R.F. Probstein
Analysis of counterwashers for freeze distillation desalination 4(1968)5

A.A. Sonin and R.F. Probstein
A hydrodynamic theory of desalination by electrodialysis 5(1968)293-329, Err. 6(1969)270

J. Shwartz and R.F. Probstein
Experimental study of slurry separators for use in desalination 6(1969)239

R.F. Probstein, A.A. Sonin and E. Gur-Arie
A turbulent flow theory of electrodialysis 11(1972)165

R.F. Probstein, A.A. Sonin and D. Yung
Brackish water salt rejection by porous hyperfiltration membranes 13(1973)303

H. Gold, A. Todisco, A.A. Sonin and R.F. Probstein
The Avco continuous moving bed ion-exchange process and large scale desalting 17(1975)97

R.F. Probstein and D.J. Goldstein
Desalting technologies for wastewater treatment 19(1976)525

R.F. Probstein, J.S. Shen and W.F. Leung
Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow 24(1978)1

Prodanova S.

S. Pavlova and S. Prodanova
Reducing the amount of microorganisms in feed water for membrane demineralization 91(1993)115

Psaras G.

J.W. Carter, G. Psaras and M.T. Price
Effect of precipitating media on the performance of porous cellulose acetate reverse osmosis membranes 12(1973)177

Puchen Y.

Hao Jihua, Wang Wentong, Yang Puchen and Zhao Qingshuang
The preparation of quaternized polysulfon membranes for low pressure reverse osmosis 83(1991)361

Pugh O.

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Pujadas F.

Y. Fukumoto, K. Isobe, N. Moriyama and F. Pujadas
The performance test of new antiscalant "AQUAKREEN KC-550" under the high temperature condition at the MSF desalination plant in Dubai 83(1991)65

Pung Liehsheng

Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh
Treatment of uranium effluent by reverse osmosis membrane 71(1989)35

Purushothaman V. M.

S. Gopalakrishna, V.M. Purushothaman and N. Lior
An experimental study of flash evaporation from liquid pools 65(1987)139

Pusch W.

R. Gröpl and W. Pusch
Asymmetric behaviour of cellulose acetate membranes in hyperfiltration experiments as a result of concentration polarisation 8(1970)277

W. Pusch and R. Riley
Relation between salt rejection r and reflection coefficient s of asymmetric cellulose acetate membranes 14(1974)389

W. Pusch
Transport coefficients of asymmetric cellulose acetate membranes 16(1975)65

W. Pusch and R. Riley
Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients 22(1977)191

W. Pusch and G. Mossa
Influence of pressure and/or pressure differential on membrane permeability 24(1978)39

W. Pusch and A. Walch
Synthetic membranes: State of the art 35(1980)5

J.-Y. Chen, M. Kurihara and W. Pusch
Transport coefficients of asymmetric and composite membranes 46(1983)379

W. Pusch and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 46(1983)425

J.-Y. Chen, H. Nomura and W. Pusch
Temperature dependence of membrane transport parameters in hyperfiltration 46(1983)437

N. Choji, W. Pusch, M. Satoh, T.-M. Tak and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 53(1985)347

M. Kurihara, W. Pusch and T. Tanaka
Transport properties of Toray's asymmetric cellulose acetate membranes 56(1985)251

W. Pusch
Measurement techniques of transport through membranes 59(1986)105

W. Pusch
Efficiency of synthetic membranes in comparison with biological membranes 62(1987)5

W. Pusch
Osmotic pressure of dextran T10 solutions 68(1988)69

W. Pusch, Y.-L. Yu and L.-Y. Zheng
Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions 75(1989)3

W. Pusch
Performance of RO membranes in correlation with membrane structure, transport mechanisms of matter and module design (fouling). State of the art 77(1990)35

W. Pusch
Comparison of transport of alkali-halides and nitrates across asymmetric cellulose acetate and polyamide, composite poly(etherurea), and cation exchange membranes 83(1991)261

V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright
Concentration polarization and water splitting at electrodialysis membranes 91(1993)225

Puskas K.

K. Puskas and I. Esen
Possibilities of utilizing municipal and industrial wastewater effluents to condition soil 72(1989)125

Putilin J. V.

V.I. Podbereznyi, J.K. Smirnov and J.V. Putilin
Some aspects of the development and operation of the desalination installations with horizontal-tube thin-film evaporators 73(1989)447

V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash
Heat transfer in film-type evaporator with profiled tubes 74(1989)363

J.V. Putilin, V.L. Podbereznyi and V.G. Rifert
Evaporation heat transfer in liquid films flowing down horizontal smooth and longitudinally profiled tubes 105(1996)165

Putilin U. V.

V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin
Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design 45(1983)15

Pyne R. D. G

O.K. Buros and R.D.G. Pyne
Extending water supplies in water short areas 98(1994)437

Qamhiyah Z.

H. Al-Rqobah, M. Abdel-Jawad, Z. Qamhiyah and G. Aly
Optimization of chemical pretreatment for reverse osmosis (RO) seawater desalination 66(1987)423

Qamhiyeh A. A.

A.M. El-Nashar and A. Qamhiyeh
Simulation of the performance of MES evaporators under unsteady state operating conditions 79(1990)65

A.M. El-Nashar and A.A. Qamhiyeh
Performance and reliability of a solar desalination plant during a five-year operating period 82(1991)165

A.M. El-Nashar and A.A. Qamhiyeh
Optimal performance of MSF distillers for UANW 9 and 10 power plant: A thermoeconomic study 93(1993)323

A.M. El-Nashar and A.A. Qamhiyeh
Simulation of the steady-state operation of a multi-effect stack seawater distillation plant 101(1995)231

Qashu H.K.

H.K. Qashu
The desalination choice: Planned water and power security or decisions by calamity? 99(1994)211

Qian YaoNan

Qu Jing-Xu, Qian Yao-Nan and Shen Yan-Zhang
An experimental study for separation of NaCl from SAS by electrodialysis with ion exchange membranes 64(1987)329

Qing C.

Ai-lian Ling and Qing Chen
Polyacrylonitrilic/polysulfone (PAN/PS) blend ultrafiltration (UF) membranes 101(1995)51

Qu Jingzu

Jingxu Qu and Shumin Liu
Electrode for electrodialysis 46(1983)233

Qu Jungxu

Qu Jing-Xu, Qian Yao-Nan and Shen Yan-Zhang
An experimental study for separation of NaCl from SAS by electrodialysis with ion exchange membranes 64(1987)329

Qu Peixing

Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
Low-pressure reverse osmosis drying membrane reinforced by polyester web 64(1987)403

Quentin J. P.

C. Brousse, R. Chapurlat and J.P. Quentin
New membranes for reverse osmosis. I. Characteristics of the base polymer: sulphonated polysulphones 18(1976)137

Querns W. R.

J.M. Stewart and W.R. Querns
Progress on the design of multiflash evaporators 3(1967)139

W.R. Querns
Some aspects of multistage-flash-distillation plant operation and construction 5 suppl.(1969)77

W.R. Querns
"No new water" 23(1977)409

Quick R.

H.W. Harlow, M. Ray and R. Quick
Nine years of reverse osmosis operation at Englewood 87(1992)193

Quinn R.

H.B. Sliger and R. Quinn
Application of membrane processes 19(1976)573

H. Sliger and R. Quinn
Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light 23(1977)37

R. Quinn
Design and operation of 800,000 gpd reverse osmosis seawater system 32(1980)179

Quinn R. M.

R.M. Quinn
Ultrafiltration membrane processes: The Sleeping Giant 46(1983)113

R. Singh

R. Singh
Removal of volatile organic compounds by ultrafiltration 104(1996)203

Raal J. D.

J.W. Hunt, K. Treffry-Goatley, R.L.C. Flemmer, J.D. Raal and C.A. Buckley
A mathematical model of steady-state cross-flow microfiltration in a woven hose support 61(1987)187

J.W. Hunt, C.J. Brouckaert, J.D. Raal, K. Treffry-Goatley and C.A. Buckley
The unsteady-state modelling of cross-flow microfiltration 64(1987)431

V.L. Pillay, C.J. Brouckaert, C.A. Buckley and J.D. Raal
Predicted performance profiles along a long-tube cross-flow microfiltration system 71(1989)247

Rababah A.A.

B.H. Boyden and A.A. Rababah
Recycling nutrients from municipal wastewater 106(1996)241

Rabas T. J.

T.J. Rabas and D. Cane
An update of intube forced convection heat transfer coefficients of water 44(1983)109

T.J. Rabas
An improved MSF condenser design 55(1985)169

T.J. Rabas
The effect of tubeside maldistribution on the thermal performance of condensers used in multistage flash distillation plants 55(1985)515

T.J. Rabas
The effect of interstage heat leakage on the thermal performance of MSF evaporators 65(1987)153

T.J. Rabas, S. Inoue and A. Shimizu
An update on the mass transfer of counterflow, packed deaerators containing pall-ring packing 66(1987)91

Rabiller-Baudry M.

B. Chaufer, M. Rabiller-Baudry, L. Guihard and G. Daufin
Retention of ions in nanofiltration at various ionic strength 104(1996)37

Rabinowitz J.

T. Bejarano, C. Forgacs and J. Rabinowitz
Further developments in the high temperature electrodialysis 3(1967)129

E.A.J. Mroz
Scale prevention via quench dilution 3(1967)135

C. Forgacs, L. Koslowsky and J. Rabinowitz
The desalination of sea water by high temperature electrodialysis 5(1968)349

Rachwal A.J.

A.J. Rachwal, J. Khow, J.S. Colbourne and J. O'Donnell
Water treatment for public supply in the 1990's — A role for membrane technology? 97(1994)427

Rácz I. G.

I.G. Rácz, J. Groot Wassink and R. Klaassen
Mass transfer, fluid flow and membrane properties in flat and corrugated plate hyperfiltration modules 60(1986)213

H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz
Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration 90(1993)345

Radhamohan K.

K. Radhamohan and S. Basu
Electrodialysis in the regeneration of paper mill spent liquor 33(1980)185

Radhwan A.

K. Fathalah, S.E. Aly, M. Darwish and A. Radhwan
A theoretical study of enhanced condensation over horizontal fluted tubes 65(1987)25

Radif A.

A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum
Corrosion experience data bank system for desalination and power plants (Corex) 84(1991)251

H. Osman, A.H. Sultan, A. Radif and S.A. Aziz
Large pumps in power and desalination plants 93(1993)181

Radiman C.L.

C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang
Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing 93(1993)273

Raghavan V. R.

J. Bharadwaj and V.R. Raghavan
Influence of noncondensables on modern thermal desalination 49(1984)357

Raghupathi C.N.

C.N. Raghupathi and T. Swaminathan
Desalination in India — Experience and future prospects 98(1994)495

Raghuraman L.

L. Raghuraman
Membrane material for brackish water application for utilities — An evalution 91(1993)155

Rahav R.

E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch
Fouling of anion-selective membranes in electrodialysis 8(1970)195

Rahbar M.T.

M.T. Rahbar
Improvement of the design and operation of desalination plants by computer modelling and simulation 92(1993)253

Rahim N.H.A.

N.H.A. Rahim
Utilization of a forced condensing technique in a moving film inclined solar desalination still 101(1995)255

Rahman A.

K.J. McGlone, E.G. Darton, D.J. Langdown and A. Rahman
Factors affecting the design of a pre-treatment system for a 1,200 m3/d RO plant in Riyadh, Saudia Arabia with an iron-rich, 60oC feed water 96(1994)397

Rahman F.

F.H. Butt, A.G. Maadhah, F. Rahman and H.M. Al-Zahrani
Problems encountered during commissioning and subsequent performance of an MSF desalination plant in Saudi Arabia 45(1983)345

F. Butt, F. Rahman, A. Al-Abdallah, H. Al-Zahrani, A. Maadhah and M. Amin
Field trials of hybrid acid-additive treatment for control of scale in MSF plants 54(1985)307

F.H. Butt, F. Rahman and U. Baduruthamal
Identification of scale deposits through membrane autopsy 101(1995)219

F.H. Butt, F. Rahman and U. Baduruthamal
Pilot plant evaluation of advanced vs. conventional scale inhibitors for RO desalination 103(1995)189

F.H. Butt, F. Rahman and U. Baduruthamal
Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 1: Pilot plant evaluation 109(1997)67

F.H. Butt, F. Rahman and U. Baduruthamal
Hollow fine fiber vs. spiral-wound RO desalination membranes. Part 2: Membrane autopsy 109(1997)83

F.H. Butt, F. Rahman and U. Baduruthamal
Evaluation of SHMP and advanced scale inhibitors for control of CaS04, SrS04, and CaC03 scales in RO desalination 109(1997)323

Rai S.N.

S. Suneja, G.N. Tiwari and S.N. Rai
Parametric study of an inverted absorber double-effect solar distillation system 109(1997)177

Raja W. A.

W.A. Raja and R.W. Piazza
Reverse running centrifugal pumps as hydraulic power recovery turbines for seawater reverse osmosis systems 38(1981)123

Rajan K. S.

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Inorganic ion-exchange membranes and their application to electrodialysis 1(1966)231

K.S. Rajan, D.B. Boies, A.J. Casolo and J.I. Bregman
Electrodialytic demineralization of brackish waters by using inorganic ion-exchange membranes 5(1968)371

Rajvanshi A. K.

A.K. Rajvanshi
Large scale dew collection as a source of fresh water supply 36(1981)299

Ramachandhran V.

M.P.S. Ramani and V. Ramachandhran
Synthesis and study of RO performance of aromatic polyamide hydrazide membranes 90(1993)31

A.M. Hanra and V. Ramachandhran
RO performance analysis of cellulose acetate and TFC polyamide membrane systems for separation of trace contaminants 104(1996)175

Ramamurthy P.

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy
Membrane performance with plug screw feeder pressate: operating conditions and membrane properties 105(1996)229

Ramani M. P. S.

P.K. Tewari, R.K. Verma, M.P.S. Ramani and S.P. Mahajan
Studies on nucleate boiling of sodium chloride solutions at atmospheric and sub-atmospheric pressures 52(1985)335

P.K. Tewari, M.S. Hanra and M.P.S. Ramani
Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study 64(1987)203

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Operational experience of reverse osmosis plants for drinking water in Indian villages 65(1987)361

R.N. Patra, S. Prabhakar, B.M. Misra and M.P.S. Ramani
Water and effluent water treatment using reverse osmosis 67(1987)507

S. Prabhakar, R.N. Patra, B.M. Misra and M.P.S. Ramani
Management and feasibility of reverse osmosis schemes for rural water supply in India 73(1989)37

P.K. Tewari, M.S. Hanra, R.K. Verma and M.P.S. Ramani
Studies on MSF desalination - Process design, construction and startup of a prototype MSF plant in India 73(1989)359

P.K. Tewari, S. Prabhakar and M.P.S. Ramani
Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India 79(1990)85

M.P.S. Ramani and V. Ramachandhran
Synthesis and study of RO performance of aromatic polyamide hydrazide membranes 90(1993)31

P.K. Tewari, R.K. Verma and M.P.S. Ramani
Pressurized heavy water reactor desalination in the Indian context 95(1994)299

H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra
Role of evaporative and membrane desalination technology in solving drinking water problems in India 96(1994)249

Ramey J.T.

J.T. Ramey
Practical considerations in desalination and energy development and utilization 5 suppl.(1969)3

Ramp F. L.

F.L. Ramp
A method of characterizing ion-exchange membranes by conductance measurements 16(1975)321

Ranck J. P.

J.P. Ranck
A preliminary technical and economic investigation of sea water demineralization by ion-exchange for calcium and bicarbonate ions and their subsequent removal by thermal decomposition 6(1969)75

Randall E. W.

E.W. Randall
A microprocessor-based data monitoring and control system for a continuous ion exchange plant 49(1984)169

Randles N.

N. Randles
Large scale operating experience in membrane systems for water and waste water reclamation 108(1996)205

Rangarajan R.

R. Rangarajan, N.V. Desai, R.C. Mody, D. Mohan and A.V. Rao
Development of fabric reinforced polysulfone membranes 85(1991)81

Rankin R. H.

R.H. Rankin and W.L. Adamson
Scale formation as related to evaporator surface conditions 13(1973)63-87, Err. 13(1973)63

Rao A. V.

D.J. Mehta, V.P. Pandya and A.V. Rao
Reverse osmosis relevant to India 20(1977)403

D.J. Mehta, A.V. Rao and K.P. Govindan
Water desalination — A perspective for membrane processes in India 30(1979)325

S.V. Joshi and A.V. Rao
Cellulose triacetate membranes for seawater desalination 51(1984)307

V.J. Shah, R.M. Kava, A.V. Rao and M.M. Taqui Khan
A mobile reverse osmosis demonstration plant 69(1988)161

S.V. Joshi and A.V. Rao
Synthesis and evaluation of poly(m-phenylene isophthalamide) as a reverse osmosis membrane 78(1990)355

R. Rangarajan, N.V. Desai, R.C. Mody, D. Mohan and A.V. Rao
Development of fabric reinforced polysulfone membranes 85(1991)81

Rao B. J. R.

A.L.A. Malik, K.M. Mousa, N.G. Younan and B.J.R. Rao
Performance evaluation of three different seawater RO membranes at DROP in Kuwait 63(1987)163

A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait 75(1989)341

Rao G. B.

N.S. Rao, T.N.V. Rao, G.B. Rao and K.V.G. Rao
Impact of reject water from the desalination plant on ground water quality 78(1990)429

Rao G.H.

G.H. Rao and K.K. Sirkar
Explicit flux expressions in tubular reverse osmosis desalination 27(1978)99

K.K. Sirkar and G.H. Rao
Short cut design methods for reverse osmosis separation with tubular modules 48(1983)25

Rao G.P.

G.P. Rao
Unity of control and identification in multistage flash desalination processes 92(1993)103

D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani
Towards improved automation for desalination processes. Part I: Advanced control 97(1994)469

G.P. Rao, D.M.K. Al-Gobaisi, A. Hassan, A. Kurdali, R. Borsani and M. Aziz
Towards improved automation for desalination processes. Part II: Intelligent control 97(1994)507

Rao G. V. S.

G.V.S. Rao
Reverse osmosis membrane research facility at Bharat Heavy Electricals and its application for desalination in India 83(1991)385

Rao K. V. G.

N.S. Rao, T.N.V. Rao, G.B. Rao and K.V.G. Rao
Impact of reject water from the desalination plant on ground water quality 78(1990)429

Rao N. S.

N.S. Rao, T.N.V. Rao, G.B. Rao and K.V.G. Rao
Impact of reject water from the desalination plant on ground water quality 78(1990)429

Rao T. N. V.

N.S. Rao, T.N.V. Rao, G.B. Rao and K.V.G. Rao
Impact of reject water from the desalination plant on ground water quality 78(1990)429

Raper W.G.C.

W.G.C. Raper
An ion-exchange process with thermal regeneration. X. Removal of dissolved oxygen from the feedwater 17(1975)325

N.H. Pilkington and W.G.C. Raper
An ion-exchange process with thermal regeneration. XV. Treatment of sulphite deoxygenated feedwaters 42(1982)255

Rapp H. -J.

H. Strathmann, H.-J. Rapp, B. Bauer and C.M. Bell
Theoretical and practical aspects of preparing bipolar membranes 90(1993)303

Raridon R. J.

R.J. Raridon, L. Dresner and K.A. Kraus
Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method 1(1966)210

Rashidi Sh.

Z. Ahmed and S. Rashidi
Application potential of a modified aluminium alloy in Arabian Gulf desalination plants 44(1983)265

Rastogi R. P.

R.P. Rastogi, K. Singh and B.M. Misra
Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water 3(1967)32

Ratigan B.J.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

Raucq D.

D. Raucq, G. Pourcelly and C. Gavach
Production of sulphuric acid and caustic soda from sodium sulphate by electromembrane processes. Comparison between electroelectrodialysis and electrodialysis on bipolar membrane 91(1993)163

Rautenbach R.

R. Rautenbach and K.H. Henne
Total desalination of brackish water 30(1979)581

R. Rautenbach and H. G. Büchel
Modular program for design and simulation of desalination plants 31(1979)85

R. Rautenbach, P. Monheim and D. Zebrowski
MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry 31(1979)197

R. Rautenbach and E. Ghafour
On the optimum exhaust-steam temperature for coupling back-pressure turbines and MSF plants 31(1979)521

R. Rautenbach and B. Arzt
Large scale diesel driven vapor compression units 38(1981)75

R. Rautenbach and B. Arzt
Waste heat utilization of large diesel engines by thermocompression and low temperature multiple effect evaporation 44(1983)121

R. Rautenbach and H.G. Büchel
Simulation of thermal desalination processes, some results 45(1983)37

R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
An assessment of different scale control methods 47(1983)49

G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis 47(1983)267

R. Rautenbach and B. Arzt
Gas turbine waste heat utilization for distillation 52(1985)105

R. Rautenbach and B. Arzt
The development of high performance distillation plants 56(1985)261

R. Rautenbach and J. Gebel
Studies on the behaviour of high performance multiple-effect-stack processes 65(1987)75

R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes
Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs 65(1987)241

R. Rautenbach and W. Dahm
Design and optimization of spiral-wound and hollow fiber RO-modules 65(1987)259

R. Rautenbach, C. Herion and M. Franke
Dehydration of multicomponent organic systems by a reverse osmosis pervaporation-hybrid process module-, process design and economics 70(1988)445

R. Rautenbach, W. Kopp and C. Herion
Electrodialysis - contact sludge reactor and reverse osmosis - phase separator, two examples of a simple process combination for increasing the water recovery rate of membrane processes 72(1989)339

R. Rautenbach and J. Gebel
On the concentration of RO-brines by seeded horizontal tube falling film evaporation (HTFE) 76(1989)107

R. Rautenbach and A. Gröschl
Separation potential of nanofiltration membranes 77(1990)73

R. Rautenbach and U. Meyer-Blumenroth
Module and process design for vapor permeation 77(1990)295

R. Rautenbach, C. Erdmann and J.S. Kolbach
The fluidized bed technique in the evaporation of wastewaters with severe fouling/scaling potential - Latest developments, applications, limitations 81(1991)285

R. Rautenbach and R. Habbe
Seeding technique for "zero-discharge" processes, adaption to electrodialysis 84(1991)153

R. Rautenbach and A. Gröschl
Fractionation of aqueous organic mixtures by reverse osmosis 90(1993)93

R. Rautenbach and A. Gröschl
Fractionation of aqueous organic mixtures by reverse osmosis 90(1993)93

R. Rautenbach and K. Welsch
Treatment of landfill gas by gas permeation - pilot plant results and comparison to alternatives 90(1993)193

R. Rautenbach
Progress in distillation 93(1993)1

R. Rautenbach and R. Mellis
Waste water treatment by a combination of bioreactor and nanofiltration 95(1994)171

G.F. Tusel, R. Rautenbach and J. Widua
Seawater desalination plant "Sirte" - an example for an advanced MSF design 96(1994)379

R. Rautenbach and R. Mellis
Hybrid processes involving membranes for the treatment of highly organic/inorganic contaminated waste water 101(1995)105

R. Rautenbach and T. Linn
High-pressure reverse osmosis and nanofiltration, a "zero discharge" process combination for the treatment of waste water with severe fouling/scaling potential 105(1996)63

R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz
Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis 108(1996)247

R. Rautenbach, S. Schäfer and S. Schleiden
Improved equations for the calculation of non-equilibrium temperature loss in MSF 108(1996)325

R. Rautenbach and T. Katz
Survey of long time behavior and costs of industrial fluidized bed heat exchangers 108(1996)335

R. Rautenbach, T. Linn and D.M.K. Al-Gobaisi
Present and future pretreatment concepts - Strategies for reliable and low-maintenance reverse osmosis seawater desalination 110(1997)97

Ravishankar P. S.

P.S. Ravishankar
Note on the paper "Hyperfiltration studies V. Salt rejection of membranes by a concentration polarization method" 21(1977)341-342, Err. 1(1966)210

Rawson R.

R. Rawson, R. Larson, R. Shuchman and R. Worsfold
The capability of SAR systems for iceberg detection and characterization 29(1979)109

Ray M.

H.W. Harlow, M. Ray and R. Quick
Nine years of reverse osmosis operation at Englewood 87(1992)193

Razak Jeday M.

P. Le Goff, J. Le Goff and M. Razak Jeday
Development of a rugged design of a high efficiency multi-stage solar still 82(1991)153

Razumovskii L.P.

A.L. Iordanskii, L.P. Razumovskii, A.V. Krivandin and T.L. Lebedeva
Diffusion and sorption of water in moderately hydrophilic polymers: From segmented polyetherurethanes to poly-3-hydroxybutyrate 104(1996)27

A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov
Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes 104(1996)113

Read S. M.

L.A. Bromley and S.M. Read
Multiple effect flash (MEF) evaporator 7(1970)343

S.F. Chen, R.C. Chan, S.M. Read and L.A. Bromley
Viscosity of sea water solutions 13(1973)37

V.C. van der Mast, S.M. Read and L.A. Bromley
Boiling of natural sea water in falling film evaporators 18(1976)71-94

Reahl E. R.

E.R. Reahl
Reclaiming reverse osmosis blowdown with electrodialysis reversal 78(1990)77

A. Seigworth, R. Ludlum and E. Reahl
Case study: Integrating membrane processes with evaporation to achieve economical zero liquid discharge at the Doswell Combined Cycle Facility 102(1995)81

Reali M.

M. Reali and G.A. Bemporad
Energy-efficient schemes for seawater desalination 105(1996)171

M. Reali, M. de Gerloni and A. Sampaolo
Submarine and underground reverse osmosiS schemes for energy-efficient seawater desalination 109(1997)269

Rebagliati S.

S. Rebagliati, E. Ghiazza and K.S. Abueida
One year operational experience on the process control system at UANE MSF Desalination Plant 75(1989)149

Rebhun M.

Y. Egozy, E. Korngold, N.C. Daltrophe and M. Rebhun
Waste water recycling by ion-exchange: II. Partial desalination 33(1980)333

Reda M.R.

M.R. Reda and J.N. Alhajji
A comparative study of common metals scavenging efficiency for aqueous sulfide or sulfite pollutants in salt solution 94(1994)273

Reddy M. M.

M.M. Reddy and G.H. Nancollas
Calcite crystal growth inhibition by phosphonates 12(1973)61-73, Err. 13(1973)104

M.M. Reddy and G.H. Nancollas
Calcite crystal growth inhibition by phosphonates 12(1973)61-73, Err. 13(1973)104

Redondo J. A.

J.A. Redondo and K.F. Frank
Sea water applications with FILMTEC reverse osmosis membranes from small to large plants in 10 years 82(1991)31

J.A. Redondo
Development and experience in seawater applications with the new seawater FILMTEC reverse osmosis membrane 105(1996)71

J.A. Redondo
Development and experience with new FILMTEC reverse osmosis membrane elements for water treatment 108(1996)59

J.A. Redondo and I. Lomax
Experiences with the pretreatment of raw water with high fouling potential for reverse osmosis plant using FILMTEC membranes 110(1997)167

Reed S. A.

S.C. May, E.H. Houle, S.A. Reed and W.F. Savage
Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant 30(1979)605

Reggiani J.-C.

L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani
Electrokinetic characterization of polyethersulfone UF membranes 109(1997)253

Regula J.

B. Tansel, J. Regula and R. Shalewitz
Treatment of fuel oil and crude oil contaminated waters by ultrafiltration membranes 102(1995)301

Reich S.

S. Reich, B. Gavish and S. Lifson
Visualization of hydrodynamic phenomena in the vicinity of a semipermeable membrane 24(1978)295

Reichle S.

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Reimann W.

W. Reimann
Influence of organic matter from waste water on the permeability of membranes 109(1997)51

W. Reimann and I. Yeo
Ultrafiltration of agricultural waste waters with organic and inorganic membranes 109(1997)263

Reimer R. A.

M.H. Auerbach, J.J. O'Neill, R.A. Reimer and S.W. Walinsky
Foam control additives in MSF desalination 38(1981)159

Rein L.

D.R. Lee, J.M. Hargreaves, L. Badertscher, L. Rein and F. Kassir
Reverse osmosis and activated alumina water treatment plant for the California State prisons located near Blythe 103(1995)155

Reismeier B.

B. Reismeier, K.H. Kroner and M.-R. Kula
Harvest of microbial suspensions by microfiltration 77(1990)219

Reith T.

H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz
Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration 90(1993)345

Reitz R. L.

S.I. Graham, R.L. Reitz and C.E. Hickman
Improving reverse osmosis performance through periodic cleaning 74(1989)113

Ren Deqian

Bingchen Hu, Deqian Ren, Rongen Xu and Dingyi Yu
The development of the spiral-wound reverse osmosis (RO) modules 54(1985)105

Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu
Long-term tests on a model SRO-80-1000 spiral-wound RO prototype 62(1987)233

Ren Deqian
Cleaning and regeneration of membranes 62(1987)363

Rencken G. E.

K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley
The dewatering of sludges using a tubular filter press 67(1987)467

Resini I.

I. Resini, G. Coliva, A. de Maio and R. Lucenti
4x6 MIGPD plus lxl MIGPD (acid) plants. Two years' operation results 54(1985)377

R. Zannoni, I. Resini and R. Lucenti
Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature 66(1987)109

R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari
Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station 66(1987)431

R. Zannoni, A. Bonacini, M. Musatti and I. Resini
Limestone hardening system for Brindisi's power station: First limestone recarbonation unit installed in Italy for industrial water production 82(1991)351

Resnick W.

D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
Calcium carbonate scale deposition on heat transfer surfaces 5(1968)107

Reverter J.

J. Reverter, M. Ribeaud and M.P. Savage
An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV 47(1983)17

Reverter J.A.

D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter
Alicante University, closed water cycle, reverse osmosis and water treatment plants 109(1997)315

Rey M.

M. Rey and F. Lauro
Ocean thermal energy and desalination 39(1981)159

Reyes B. W.

D. Blackson, B.W. Reyes, J.W. Kluesener and E.H. Houle
Water reclamation for power plant cooling 56(1985)175

Reztsov Y.V.

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov and V.S. Koptev
Treatment of natural water by membranes 105(1996)33

A.G. Pervov, Y.V. Reztsov, S.B. Milovanov, V.S. Koptev and A.G. Melnikov
Production of quality drinking water with membranes 108(1996)167

Rhodes H. L.

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

Ribbins P.D.

J.M. Parker and P.D. Ribbins
Privatization of government system 97(1994)313

Ribeaud M.

J. Reverter, M. Ribeaud and M.P. Savage
An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV 47(1983)17

Ricard A.

I. Baudin, M. Millequant, A. Ricard and R. Audebert
Adsorption of neutral polysaccharides at the silica-water interface. Role in the formation of a fouling cake at the filtration membrane surfaces used in water treatment 86(1992)237

Ricci G.

A. Bolognini, A. Ciminale, P. Compagnoni, F. Ficco, G. Mori and G. Ricci
Desalination plant of 3.8 mgpd at Gela (Sicily) 19(1976)317

Rice P.A.

J.-E. Bajolle, P.A. Rice and A.J. Barduhn
Vacuum stripping of butane from water in a packed column 9(1971)351

Rice W.

W. Rice and D.S.C. Chau
Freeze desalination using hydraulic refrigerant compressors 109(1997)157

Richard H.A.

A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern
The rate of formation of the hydrates of F-31 (CH2CIF) and F-142b (CH3CCIF2) in a stirred tank reactor 18(1976)59

Richard N. A.

A.E. Austin, J.F. Miller, N.A. Richard and J.F. Kircher
Precipitation of calcium sulfate from sea water at high temperatures 16(1975)331

Richardson N. L.

N.L. Richardson and D.G. Argo
Orange County's 5 mgd reverse osmosis plant 23(1977)563

Richau K.

K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul
Electrochemical characterization of charged membranes and membrane systems 104(1996)19

Richau V.

V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
Asymmetric behavior of membranes in pressure driven processes 46(1983)447

Ricklis J.

M. Wilf and J. Ricklis
RO desalting of brackish water oversaturated with CaSO4 47(1983)209

P. Glueckstern, M. Wilf, J. Etgar and J. Ricklis
Use of microprocessors for control, data acquisition and on line performance evaluation in a reverse osmosis plant 55(1985)469

Ricq L.

L. Ricq, A. Pierre, S. Bayle and J.-C. Reggiani
Electrokinetic characterization of polyethersulfone UF membranes 109(1997)253

Rider W.J.

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Ridgway H. F.

H.F. Ridgway
Bacteria and membranes: Ending a bad relationship 83(1991)53

Riebe J.

A. Brandel and J. Riebe
Removal of accumulated deposits by chemical treatments in multistage flash distillation units 31(1979)341

Riedinger A.B.

C.E. Milstead, A.B. Riedinger and H.K. Lonsdale
Rejection of carbon dioxide and pH effects in reverse osmosis desalination 9(1971)217

C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton
Jeddah seawater reverse osmosis installation 30(1979)259

A.B. Riedinger and C.E. Hickman
Considerations of energy consumption in desalination by reverse osmosis 40(1982)259

W.G. Light, J.L. Perlman, A.B. Riedinger and D.F. Needham
Desalination of non-chlorinated surface seawater using TFCR membrane elements 70(1988)47

Rifert V. G.

V.G. Rifert, V.L. Podbereznyi, J.V. Putilin, J.G. Nikitin and P.A. Barabash
Heat transfer in film-type evaporator with profiled tubes 74(1989)363

V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi
Heat exchange at dropwise condensation in heat exchangers of desalination plants 74(1989)373

V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny
Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations 81(1991)367

V.G. Rifert, P.A. Barabash, N.N. Goliayd and E.B. Kurilova
Stand-alone thermal desalination plants 96(1994)183

J.V. Putilin, V.L. Podbereznyi and V.G. Rifert
Evaporation heat transfer in liquid films flowing down horizontal smooth and longitudinally profiled tubes 105(1996)165

Rigas S.

T. Hodgkiess and S. Rigas
A comparison of the corrosion resistance of some higher-alloy stainless steels in seawater at 20-100°C 44(1983)283

Riley J. J.

J.J. Riley, K.M. Fitzsimmons and E.P. Glen
Halophyte irrigation: An overlooked strategy for management of membrane filtration concentrate 110(1997)197

Riley R.L.

R.L. Riley, U. Merten and J.O. Gardner
Replication electron microscopy of cellulose acetate osmotic membranes 1(1966)30

U. Merten, H.K. Lonsdale, R.L. Riley and K.D. Vos
Performance of cellulose acetate membranes in sea water desalination 3(1967)353

R.L. Riley, C.R. Lyons and U. Merten
Transport properties of polyvinylpyrrolidone polyisocyanate interpolymer membranes 8(1970)177

W. Pusch and R. Riley
Relation between salt rejection r and reflection coefficient s of asymmetric cellulose acetate membranes 14(1974)389

R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
Spiral-wound poly(ether/amide) thin-film composite membrane systems 19(1976)113

W. Pusch and R. Riley
Characterization of poly(ether/amide) and poly(ether/urea) thin film composite membranes by transport coefficients 22(1977)191

R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis 23(1977)331

R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami
Recent developments in thin-film composite reverse osmosis membrane systems 36(1981)207

Rimawi M. A.

M.A. Rimawi, H.M. Ettouney and G.S. Aly
Transient model of multistage flash desalination 74(1989)327

Rincón C.

M.P. Godino, L. Peña, C. Rincón and J.I. Mengual
Water production from brines by membrane distillation 108(1996)91

Ring K.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Ripasarti A.

E. Gabbrielli and A. Ripasarti
A study on Posidonia residue in seawater intakes 30(1979)127

Ripoll C.

C. Ripoll, M. Labbe, L. Lavielle and E. Selegny
Simultaneous automatic measurement of salt and water fluxes through a charged membrane 41(1982)289

Ripperger S.

T.J. van Gassel and S. Ripperger
Crossflow microfiltration in the Process industry 53(1985)373

Ritz D.B.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

Rivas H. M.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Rizk A. A.

A.A. Rizk, M.A. Darwish and S.M. El-Haggar
Flashing flow of water in conduits between chambers in MSF units 20(1977)299

Robbertsen T.

J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
Characterization of clean and fouled ultrafiltration membranes 68(1988)93

Roberts J.O.

W.A. Williams, Jr., J.O. Roberts and R.D. McFarren
Role of nuclear energy in desalination - A review of the United States Atomic Energy Commission's desalination development program, problem areas, and potential 5 suppl.(1969)51

Roberts J. S.

J.C. Watters, E. Klein, M. Fleischman, J.S. Roberts and B. Hall
Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack 60(1986)93

Roberts P.D.

N. Akhtar, L. McGrath and P.D. Roberts
Dynamic modelling and partial simulation of a pilot scale column crystallizer 28(1979)1

Robertson M.W.

M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi
Model based control for reverse osmosis desalination processes 104(1996)59

Robinson R.

R. Robinson, G. Ho and K. Mathew
Development of a reliable low-cost reverse osmosis desalination unit for remote communities 86(1992)9

Rockel M. B.

M. Pötzschke and M.B. Rockel
Corrosion resistance of stainless steels and nickel alloys in artificial sea water 44(1983)295

M. Pötzschke, M.B. Rockel and G. Rudolph
The effect of iron (pick-up) on sea water corrosion properties of welded CuNilOFe steel compounds 55(1985)281

Rodesjö B.

S.-I. Andersson, N. Kjellander and B. Rodesjö
Design and field tests of a new membrane distillation desalination process 56(1985)345

Rodina I. V.

O.D. Linnikov, V.L. Podbereznyi and I.V. Rodina
Inhibition of scale formation from natural salt waters. Inhibitor effect on chemical composition of the forming scale 82(1991)359

Rögener F.

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 1: New technological concept 108(1996)159

V. Mavrov, H. Chmiel, B. Heitele and F. Rögener
Desalination of surface water to industrial water with lower impact on the environment. Part 2: Improved feed water pretreatment 110(1997)65

Rogers A. N.

L. Awerbuch and A.N. Rogers
Use of double-fluted tubes in vertical preheaters and condensers of MSF distillation plants 17(1975)121

L. Awerbuch, T.E. Lindemuth, S.C. May and A.N. Rogers
Geothermal energy recovery process 19(1976)325

L. Awerbuch, A. Maddagiri, F.E. Swart and A.N. Rogers
Coupling of a power plant with a low temperature multi-effect desalination plant 44(1983)177

F.E. Stone and A.N. Rogers
A projected world market for seawater desalination equipment 55(1985)529

L. Awerbuch and A.N. Rogers
The technical and economic implications of measurement and control errors in water desalination 59(1986)1

Rogers P. L.

U.H. Chun and P.L. Rogers
Development of an ethanol/sorbitol process using a ceramic membrane cell recycle bioreactor 70(1988)353

Röhl F.H.

B.C. Drude and F.H. Röhl
Pressurized-water reactors for natural and enriched uranium 5 suppl.(1969)319

Rohlfs U.

U. Rohlfs and H.-D. Schulze
Possibilities of corrosion prevention and removal in seawater exposed structures and desalination plants 55(1985)283

H.-D. Schulze, U. Rohlfs and K. Thies
Enhancement of availability through the early detection of damage in desalination plants 55(1985)297

K. Thies, U. Rohlfs and H.-D. Schulze
Enhancement of the availability of desalination plants by means of in service inspections 55(1985)387

Röhr M.

M. Röhr and R. Wimmerstedt
A comparison of two commercial membranes used for biogas upgrading 77(1990)331

Rojnatovsky V. D.

L.S. Sterman, V.M. Lavigin and V.D. Rojnatovsky
The quality of the distillate of desalination plants with a washing device 45(1983)253

Rolfe P. F.

D.H. Solomon and P.F. Rolfe
Polymers that inhibit the deposition of calcium sulphate 1(1966)260

P.F. Rolfe
Polymers that inhibit the deposition of calcium sulphate: some interesting conductance observations 1(1966)359

Rolle E.

E. Rolle
Second international congress on marine pollution and waste discharge into the sea 15(1974)141

Romanenko Yu. K.

Y.I. Dytnersky, S.P. Agashichev and Y.K. Romanenko
The calculation of microfiltration of suspensions in cartridge filters 81(1991)265

Romanov A.F.

F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova
New solutions for construction of pressure-driven membrane equipment 108(1996)315

Romanova Z. M.

L.A. Minuhin, V.B. Chernozubov, E.P. Emelina, A.A. Bolotov and Z.M. Romanova
Investigation of water steam drop condensation conditions 2(1967)337

Romijn D. J.

D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn
Preparation and properties of a composite charged membrane 41(1982)249

L.E.S. Brink and D.J. Romijn
Reducing the protein fouling of polysulfone surfaces and polysulfone ultrafiltration membranes: Optimization of the type of presorbed layer 78(1990)209

Rommel M.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Ronner J. A.

K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders
Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends 61(1987)211

Ronzoni A.

A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
Results of four years of operation at high temperature (150°C) of Bari's desalination plant 45(1983)197

Roost E.

N. Grafte and E. Roost
Hot water resistant coatings for the inside protection of desalination plants 66(1987)223

Rosa M.F.

P.A.S.S. Marques, M.F. Rosa, F. Mendes, M. Collares Pereira, J. Blanco and S. Malato
Wastewater detoxification of organic and inorganic toxic compounds with solar collectors 108(1996)213

Rosberg R.

R. Rosberg
Ultrafiltration (new technology), a viable cost-saving pretreatment for reverse osmosis and nanofiltration - A new approach to reduce costs 110(1997)107

Rose G. D.

D.J. Forgach, G.D. Rose and N.E. Luteneske
Characterization of composite membranes by their non-equilibrium thermodynamic transport parameters 80(1991)275

Rosen A. M.

V.V. Iljushchenko, A.M. Rosen and S.I. Golub
General approach to the drop entrainment calculation in heat- and mass-transfer apparatus 81(1991)383

Rosenblatt N.W.

J.P. Agrawal, C.R. Antonson and N.W. Rosenblatt
Permeability measurements of flat seawater membranes 11(1972)71

Rosenthal U.

U. Rosenthal, J. Nechushtan, A. Kedem, D. Lancet and M.A. Frommer
An apparatus for studying the mechanism of membrane formation 9(1971)193

Rosner W.

W. Rosner
Possible use of single-effect evaporation and factors affecting their performance (in German) 2(1967)368

Ross G. S.

B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson
Effects of surface force interactions on an NF/UF membrane 90(1993)107

Rossi C.

G. Canepa, S. Munari, C. Rossi and F. Vigo
Preparation and properties of membranes obtained by radiation induced grafting of 4-vinylpyridine onto polytetrafluoroethylene films 13(1973)159

Rossiter J. R.

J.R. Rossiter and K.A. Gustajtis
Determination of iceberg underwater shape with impulse radar 29(1979)99

Rosso M.

M. Rosso, A. Beltramini, M. Mazzotti, and M. Morbidelli
Modeling multistage flash desalination plants 108(1996)365

Roth H. P.

H.P. Roth and P.V. Ferguson
An iIntegrated industrial waste water treatment system using electroflotation and reverse osmosis 23(1977)49

Rotstein Y.

J. Weinberg and Y. Rotstein
Operation of a horizontal tube brine concentrator 40(1982)159

Roudesli S.

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Rouher O. S.

O.S. Rouher and A.J. Barduhn
Hydrates of iso- and normal butane and their mixtures 6(1969)57

Roux G.M.

A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern
The rate of formation of the hydrates of F-31 (CH2CIF) and F-142b (CH3CCIF2) in a stirred tank reactor 18(1976)59

Rovel J.M.

P. Treille and J.M. Rovel
Sea water desalination by reverse osmosis. Recent experience 14(1974)21

J.J. Allard, J.M. Rovel and P. Treille
Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs 19(1976)169

J.J. Allard, J.M. Rovel and P. Treille
Potable water supply of Riyadh, the Saudi Arabia Kingdom's capital city, by reverse osmosis desalting plants 20(1977)227

J.M. Rovel
Four years experience in operation of a 1500 m3/d RO plant 22(1977)485

M. Picard, G.M. Faup and J.M. Rovel
Advanced treatments. Nice Lingostiere treatment plant 32(1980)149

F.W. Altena, G. Belfort, J. Otis, F. Fiessinger, J.M. Rovel and J. Nicolletti
Particle motion in a laminar slit flow: a fundamental fouling study 47(1983)221

J.M. Rovel and L. Daniel
Start-up of RO modules after a very long storage time: A case history 65(1987)373

Rowe Jr. A. M.

J.C.S. Chou and A.M. Rowe, Jr.
Enthalpies of aqueous sodium chloride solutions from 32 to 350°F 6(1969)105

Rowley L. H.

L.H. Rowley
A screening study of 12 biocides for potential use with cellulose acetate reverse osmosis membranes 88(1992)71

A.P. Murphy, L.H. Rowley and C.D. Moody
Dilute aqueous formaldehyde oxidation with hypochlorous acid 91(1993)199

L.H. Rowley
Eleven biocides are investigated for microbial efficacy and membrane compatibility to use at the Yuma Desalting Plant 97(1994)35

Rozenman T.

D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
Calcium carbonate scale deposition on heat transfer surfaces 5(1968)107

Rozzi A.

R. Passino, G. Boari, A. Rozzi and G. Tiravanti
Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCI solutions and analysis of boundary layer overpotentials 24(1978)55

M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa
Pilot and full-scale research on the vapour compression desalination process 37(1981)257

R. Passino, C. Marra, A. Rozzi and G. Tiravanti
Performance evaluation and process design of an electrodialysis plant by overpotential measurements 41(1982)181

Ruban I. G.

N.P. Leksovskaia, Z.Y. Chereisky, I.G. Ruban and O.I. Nachinkin
Effect of the solution-gel-solid system transition on the properties of microfiltration membranes 86(1992)91

Rubin J.

J. Rubin
Production of whey protein concentrates with high solids content 35(1980)193

Rubinstein I.

O. Kedem, I. Rubinstein and L.A. Segel
Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system 27(1978)143

O. Kedem and I. Rubinstein
Polarization effects at charged membranes 46(1983)185

I. Rubinstein, A. Warshawsky, L. Schechtman and O. Kedem
Elimination of acid-base generation ('water-splitting') in electrodialysis 51(1984)55

I. Rubinstein, E. Staude and O. Kedem
Role of the membrane surface in concentration polarization at ion-exchange membrane 69(1988)101

Rubio M.

D. Prats, M.F. Chillón, M. Rubio and J.A. Reverter
Alicante University, closed water cycle, reverse osmosis and water treatment plants 109(1997)315

Ruddick E. L.

G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen
Calcium removal from sea water by fixed-bed ion exchange 4(1968)158

Rudie B. J.

B.J. Rudie, G.S. Ross, S.J. Harrold and D.J. Paulson
Effects of surface force interactions on an NF/UF membrane 90(1993)107

Rudolph G.

M. Pötzschke, M.B. Rockel and G. Rudolph
The effect of iron (pick-up) on sea water corrosion properties of welded CuNilOFe steel compounds 55(1985)281

Ruehle W.

K. Genthner, S. Khalaf, W. Ruehle and A. Seifert
The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers 65(1987)171

Ruiying Chan

Wang Zhenkun, Zhang Huanxin and Chan Ruiying
A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions 62(1987)165

Ruiz H.

P. Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg
A pilot study on groundwater natural organics removal by low-pressure membranes 102(1995)47

Rumary C.H.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

Runge F.

F. Runge
Vinyl-substituted silica gel membranes (in German) 3(1967)304

Ruohomäki K.

M. Nyström, K. Ruohomäki and L. Kaipia
Humic acid as a fouling agent in filtration 106(1996)79

Ruscio F.

C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini
Chromium(III) salts recovery process from tannery wastewaters 108(1996)183

Rushton A.

A. Rushton and G.S. Zhang
Rotary microporous filtration 70(1988)379

Russell P. J.

E. Glueckauf, L.A. McDonald and P.J. Russell
Sea water softening by osmosis through desalinating membranes 3(1967)155

E. Glueckauf and P.J. Russell
The equivalent pore radius of dense cellulose acetate membranes 8(1970)351

Rybicki S.M.

J. Kurbiel, K. Zeglin and S.M. Rybicki
Implementation of the Cracow municipal wastewater reclamation system for industrial water reuse 106(1996)183

J. Kurbiel, W. Balcerzak, S.M. Rybicki and K. Swist
Selection of the best desalination technology for highly saline drainage water from coal mines in southern Poland 106(1996)415

Ryder D. N.

D.N. Ryder
Use of membranes in the manufacture of hard and semi hard cheeses 53(1985)129

Saad M. A.

M. Al-Arrayedh, B. Ericsson, M. Amin Saad and H. Yoshioka
Reverse osmosis desalination plant, RA's Abu Jarjur, State of Bahrain — Two years operational experience for the 46,000 m3/day RO plant 65(1987)197

M.A. Saad
Biofouling prevention in RO polymeric membrane systems 88(1992)85

Saadawy M.S.

M.A. Marwan, N.H. Aly and M.S. Saadawy
Simple code for the estimation of scaling potential 101(1995)279

Saari R.

R. Saari
Usability of low temperature waste heat for sea water desalination 39(1981)147

Saavedra A .

A. Saavedra, G. Bertoni, D. Fajner and G.C. Sarti
Reverse osmosis treatment of process water streams 82(1991)267

Saavedra E. R.

E.R. Saavedra
Graphic evolution of the 24,000 hours (3 years) operating data of a RO brackish water desalination plant, in Las Palmas, Canary Islands, Spain 76(1989)15

Sabbagh J.

M.M. Elsayed, K. Fathalah, J. Shams and J. Sabbagh
Performance of multiple effect diffusion stills 51(1984)183

Saber T.M.H.

T.M.H. Saber and A.H. Salem
Inhibition of the corrosion of steel pipes carrying potable water. II. Optimization of Ca2+ and HCO3- content in the presence of phosphate inhibitors 93(1993)461

T.M.H. Saber and A.A. El-Warraki
Electrochemical and spectroscopic studies on dezincification of a-brass. Part II. Effect of polarization on the dezincification process 93(1993)473

A.M. Shams El Din, T.M.H. Saber and A.A. Hammoud
Biofilm formation on stainless steels in Arabian Gulf water 107(1996)251

A.M. Shams El Din, T.M.H. Saber and A.M. Taj El Din
Titanium hydride formation from Arabian Gulf water 107(1996)265

H.l. Al Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din
Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water 109(1997)25

Sabne M. B.

S.S. Mahajan, M.B. Sabne, K.B. Gujar and N.D. Ghatge
Modification of cellulose acetate by propylene oxide 52(1985)327

Sabri Z. A.

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal
Prospects of the exploitation of advanced energy resources in water production in the Middle East 20(1977)279

A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri
Desalting in Saudi Arabia - demand, production, management, associated power generation and future plans 25(1978)9

A.F. Abdul-Fattah, A.A. Husseiny and Z.A. Sabri
Nuclear desalination for Saudi Arabia: An appraisal 25(1978)163

R. Kenarangui, A. Husseiny and Z. Sabri
A comprehensive formal approach to the evaluation of bids for desalination plants using verbal judgment 33(1980)311

I.I. Kutbi, A.M. Metwally, Z.A. Sabri and A.A. Husseiny
Reliability of the Jeddah seawater RO desalination plant based upon operations experience 39(1981)179

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Performance evaluation of MSF plants, the case of Jeddah plants 39(1981)193

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Reliability of MSF processes based on operation history 41(1982)81

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Operational data analysis of MSF desalination plants. A case study of Jeddah I 42(1982)163

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Reliability analysis of reverse osmosis plant 42(1982)291

I.I. Kutbi, Z.A. Sabri and A.A. Husseiny
Selection for desalination processes for dual-purpose nuclear plants 58(1986)113

Sachs M.S.

J.T. Maletic, M.S. Sachs and E.S. Krous
Desalting saline irrigation-water supplies for agriculture. A case study — Lower Colorado River Basin, USA 5 suppl.(1969)207

Sachs S. B.

S.B. Sachs, W.H. Baldwin and J.S. Johnson
Hyperfiltration studies XVI: Salt filtration by dynamically formed and cast poly(glutamic acid) and poly(acrylic acid) membranes 6(1969)215

S.B. Sachs, E. Zisner and G. Herscovici
Hybrid reverse osmosis ultrafiltration membranes 18(1976)99

S.B. Sachs and E. Zisner
Waste water renovation by sewage ultrafiltration 20(1977)203

Sackinger C. T.

C.T. Sackinger
Energy advantages of reverse osmosis in seawater desalination 40(1982)271

C.T. Sackinger
Membrane replacement. Permasep® reverse osmosis desalination 46(1983)41

C.T. Sackinger
Seawater reverse osmosis at high pressures 54(1985)19

L.E. Applegate and C.T. Sackinger
Avoiding iron fouling in reverse osmosis desalination plants 61(1987)39

Sadhukhan H.K.

H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra
Role of evaporative and membrane desalination technology in solving drinking water problems in India 96(1994)249

H.K. Sadhukhan and B.M. Misra
Design of a 1.4 mgd desalination plant based on MSF and RO processes for an arid area in India 106(1996)17

Sadler L.V.

L.V. Sadler and O. George
Concentration of saline produced water from coalbed methane gas wells in a multiple-effect evaporator using waste heat from the gas compressor and compressor drive engine 101(1995)169

Sadr Ghayeni S.B.

S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider
Aspects of microfiltration and reverse osmosis in municipal wastewater reuse 106(1996)25

Saeed M. N.

M.N. Saeed
Fuel efficiencies, allocation of fuels and fuel costs for power and desalination in dual purpose plants: A novel methodology 85(1992)213

M.N. Saeed
Fuel economics: A comparative study of dual-purpose power and desalination plants in the WED grid based on a constant heat value of water 93(1993)409

Saeki H.

K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada
Electrodialysis plant at Hatsushima 21(1977)45

Safar M.

S.H. Ebrahim, M.M. Abdel-Jawad and M. Safar
Conventional pretreatment system for the Doha Reverse Osmosis Plant: Technical and economic assessment 102(1995)179

Safi M. J.

M.T. Chaibi, M.J. Safi and M. Hsairi
Performance analysis of a solar desalting unit in South Tunisia 82(1991)197

Said H.

H. Kohli, D. Emmermann, R. Kadaj and H. Said
Hybrid desalting technology maximizes recovery 56(1985)61

Said M. S.

A. Al-Radif, D.M.K. Al-Gobaisi, A.M. El-Nashar and M.S. Said
Review of design and specifications of the world largest MSF units 4x(10-12.8 MIGD) 84(1991)45

Said S.

A. Hassan, S. Aziz, A. Radif, S. Said and E.A. Al-Sum
Corrosion experience data bank system for desalination and power plants (Corex) 84(1991)251

Saito J.

J. Saito and S. Fujii
Water re-use by ultrafiltration in individual building 23(1977)183

Saito S.

J. Sugi and S. Saito
Concentration and demineralization of sea water by the hydrate process 3(1967)27

Y. Mashiko, Y. Kurokawa and S. Saito
Initial flux decline of the cellulose acetate butylate membranes with time under RO performance 48(1983)147

Y. Kurokawa, Y. Mashiko and S. Saito
RO transport properties of several electrolytes through homogeneous CA membrane 58(1986)19

Saitoh T.

T. Saitoh, H. Nagai, M. Imai, K. Nakajima and M. Tujimura
Simultaneous removal of DO and TOC in ultrapure water by using UV rays 98(1994)249

Sakai T.

S. Ishizaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna
Technical aspects of desalination in Japan - present and future 5 suppl.(1969)63

H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis 25(1978)89

Sakazume N.

E. Oikawa, K. Hibi, N. Sakazume, H. Endo, T. Honda and T. Aoki
Synthesis of poly(2,5-pyridinedicarboxylic acid-alt-hydrazine) and reverse osmosis performance of its membranes 94(1993)25

Sakuma J.-I.

J. Sakuma, T. Takagi, S. Yamada and Y. Kibe
Influence of scale prevention on corrosion of heat-transfer tube 14(1974)189

W. Nishimoto and J.-I. Sakuma
Revaluation of the once-through type flash distillation plant 14(1974)369

Salah H. M.

S. Toyama, T. Aragaki, H.M. Salah and K. Murase
Dynamic characteristics of a multistage thermal diffusion type solar distillator 67(1987)21

S. Toyama, M. Nakamura, H.M. Salah, S. Futamura and K. Murase
Laboratory test of solar distillator with a heat penetrating plate having a bend 67(1987)67

Salam M. S. A.

D.L. Brining, W.C. Lester, W.N. Jessee, D.A. O'Leary, S. Bourgeois and M.S.A. Salam
Development of environmental standards for combined desalination/power generating stations in the Arabian Gulf region 39(1981)255

Salem A.H.

T.M.H. Saber and A.H. Salem
Inhibition of the corrosion of steel pipes carrying potable water. II. Optimization of Ca2+ and HCO3- content in the presence of phosphate inhibitors 93(1993)461

Salem K.

K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
Elimination of nitrate from drinking water by electrochemical membrane processes 101(1995)123

Salemme A.

D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti
Qatar desalination plants 26(1978)109

Salevan J. F.

D.C. Hicks, G.R. Mitcheson, C.M. Pleass and J.F. Salevan
DELBUOY: Ocean wave-powered seawater reverse osmosis desalination system 73(1989)81

Saltonstall Jr. C. W.

C.W. Saltonstall, Jr., W.M. King and D.L. Hoernschemeyer
A new method for measuring diffusion coefficients of electrolytes in nonionic membranes 4(1968)309

C.W. Saltonstall, Jr.
Practical aspects of sea water desalination by reverse osmosis 18(1976)315

C.W. Saltonstall, Jr.
Progress in membrane development for reverse osmosis 22(1977)229

C.W. Saltonstall, Jr. and R.W. Lawrence
Calculation of the expected performance of reverse osmosis plants 42(1982)247

Samarkin A. A.

J.S. Baranov, N.A. Kabluchko, P.K. Lebedev, A.A. Samarkin, A.P. Egorov and V.L. Podbereznyi
Operating experience of desalination units in Schevchenko 45(1983)167

N.M. Sinev, V.G. Shatsillo, V.B. Chernozobov, A.A. Samarkin and J.S. Baranov
Investigation of water desalination by distillation technique 45(1983)315

Sambrailo D.

D. Sambrailo, B. Kunst and H. Ivekovic
Reverse osmosis in seawater concentration 46(1983)125

D. Sambrailo and B. Kunst
On the calculation of stream concentrations in reverse osmosis processes 60(1986)111

D. Sambrailo and B. Kunst
Asymmetric membrane formation. Is the evaporation step necessary? 64(1987)321

D. Sambrailo and B. Kunst
Technoeconomic considerations in reverse osmotic concentration of seawater 81(1991)209

L. Kastelan-Kunst, D. Sambrailo and B. Kunst
On the skinned cellulose triacetate membranes formation 83(1991)331

Samfield M.

C.A. Brandon and M. Samfield
Application of high-temperature hyperfiltration to unit textile processes for direct recycle 24(1978)97

Samir M.

E.A. Al-Sum, S. Aziz, A. Al-Radif, M. Samir and O. Heikal
Vapour-side corrosion of copper base condenser tubes of the MSF desalination plants of Abu Dhabi 97(1994)109

Sammon D.C.

G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope 8(1970)369

Sampaolo A.

M. Reali, M. de Gerloni and A. Sampaolo
Submarine and underground reverse osmosiS schemes for energy-efficient seawater desalination 109(1997)269

Sánchez J. M.

F. Cantera Palacios and J. Ma. Sánchez-Sánchez
Optimization in dual purpose plants 45(1983)109

F. Cantera Palacios and J.-Ma. Sánchez-Sánchez
Optimization in dual purpose plants 45(1983)391

J.M. Sanchez and J.M. Garcia
Experiments on the design, installation and operation of desalination plants by O.I. - Inalsa I 82(1991)119

Sandeaux J.

K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
Elimination of nitrate from drinking water by electrochemical membrane processes 101(1995)123

S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach
Continuous electropermutation with ion-exchange textiles 104(1996)227

Sandeaux R.

K. Salem, J. Sandeaux, J. Molénat, R. Sandeaux and C. Gavach
Elimination of nitrate from drinking water by electrochemical membrane processes 101(1995)123

S. Ezzahar, A.-T. Cherif, J. Sandeaux, R. Sandeaux and C. Gavach
Continuous electropermutation with ion-exchange textiles 104(1996)227

Sander-Beuermann W.

J.J. Schröder, P. Fast and W. Sander-Beuermann
Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators 31(1979)19

Sanders B.

J.D. Gregory, R. Lugg and B. Sanders
Revision of the national reclaimed water guidelines 106(1996)263

Sanders F. E.

F.E. Sanders and J.C. Lozier
Pilot testing of reverse osmosis for salinity and organics control in a coastal supply source 103(1995)133

Sanderson R. D.

G.L. Dalton, H.S. Pienaar and R.D. Sanderson
Supplemental polymer coatings in reverse osmosis membrane improvement and regeneration 24(1978)235

R.D. Sanderson and H.S. Pienaar
A morphological approach to desalination in hyperfiltration 25(1978)281

A.J. van Reenen, N.A. Dowler and R.D. Sanderson
The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid) 69(1988)1

A.J. Van Reenen and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide—polyelectrolyte membranes V. Non-homogeneous poly(acrylic acid-convinyl alcohol) membranes: Rejection and flux properties and the treatment of coal gasification waste water 72(1989)319

A.J. Van Reenen and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VI. Effect of copolymer composition on the stability of poly(acrylic acid-covinyl acetate) and poly(acrylic acid-covinyl alcohol) membranes 72(1989)329

A.J. Van Reenen and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VII. Poly(acrylic acid-co-vinyl acetate) and poly(acrylic acid-co-vinyl alcohol) membranes: The effect of feed salt concentration on membrane properties 85(1992)247

A.J. Van Reenen, E.P. Jacobs and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VIII. Alternative substrate materials for dynamic membranes 85(1992)263

M.J. Hurndall, E.P. Jacobs and R.D. Sanderson
The performance of novel reverse osmosis membranes made from poly-2-vinylimidazoline. I. 86(1992)135

M.J. Hurndall, E.P. Jacobs, A.J. Van Reenen and R.D. Sanderson
Modified poly-2-vinylimidazoline reverse osmosis membranes. II 89(1992)203

R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen
Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes 90(1993)15

M.J. Hurndall, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(2-vinylimidazoline) composite reverse osmosis membranes 90(1993)41

E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-alt-maleic anhydride) 94(1993)37

Sangkanparan H.

C.L. Radiman, H. Sangkanparan, V.S. Praptowidodo and O.B. Liang
Preparation of asymmetric membranes for desalination, clarification of turbid water and biotechnological down-stream processing 93(1993)273

Santori M.

A. Aveni, G. Boari, L. Liberti, M. Santori and B. Monopoli
Sulphate removal and dealkalization on weak resins of the feed water for evaporation desalting plants 16(1975)135

G. Boari, L. Liberti, M. Santori and L. Spinosa
Advanced evaporation plants with sulfate removal by ion exchange 19(1976)283

V. Balice, G. Boari, M. Santori and G. Tiravanti
The electrodialysis — ion exchange demonstration plant at Brindisi 19(1976)447

A.C. di Pinto and J.L. Hooper
Desalination activities in Italy 20(1977)105

P. Mappelli, M. Santori, A. Chiolle and G. Gianotti
Membrane processes used for the treatment of industrial effluents 24(1978)155

G. Boari, C. Carrieri, P. Mappelli and M. Santori
Reverse osmosis pilot plants performance in brackish water desalination 24(1978)341

M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa
Pilot and full-scale research on the vapour compression desalination process 37(1981)257

A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
Results of four years of operation at high temperature (150°C) of Bari's desalination plant 45(1983)197

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

L. Liberti, R. Passino, M. Santori and G. Boari
Technical and economic trends of sea water desalting in the '90s 55(1985)503

R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari
Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station 66(1987)431

Sapari N.

N. Sapari
Treatment and reuse of textile wastewater by overland flow 106(1996)179

N. Sapari, A. Idris and N.H.A. Hamid
Total removal of heavy metal from mixed plating rinse wastewater 106(1996)419

Sapkal V. S.

S. Basu and V.S. Sapkal
Membrane technique in simplification of soda recovery process in pulp and paper industry 67(1987)371

Sára M.

S. Küpcü, M. Sára and U.B. Sleytr
Influence of covalent attachment of low molecular weight substances on the rejection and adsorption properties of crystalline proteinaceous ultrafiltration membranes 90(1993)65

Saravacos G.D.

E. Mitsoyannis and G.D. Saravacos
Precipitation of calcium carbonate on reverse osmosis membranes 21(1977)235

Sarbolouki M.N.

M.N. Sarbolouki and I.F. Miller
On pore flow models for reverse osmosis desalination 12(1973)343

Sardak A. I.

V.G. Rifert, A.I. Sardak, S.V. Grigorenko and V.L. Podbereznyi
Heat exchange at dropwise condensation in heat exchangers of desalination plants 74(1989)373

V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny
Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations 81(1991)367

Saricimen H.

H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin
Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf 78(1990)327

Sarig S.

S. Sarig, F. Kahana and R. Leshem
Selection of threshold agents for calcium sulfate scale control on the basis of chemical structure 17(1975)215

Sarikaya H.Z.

O.S. Abu-Rizaiza and H.Z. Sarikaya
Drainage water reuse or disposal, Jeddah, Saudi Arabia 98(1994)173

Sarofim A. F.

S.G. Kane, T.W. Evans, P.L.T. Brian and A.F. Sarofim
The kinetics of the secondary nucleation of ice: Implications to the operation of continuous crystallizers 17(1975)3

Sarti G. C.

G.C. Sarti, C. Gostoli and S. Matulli
Low energy cost desalination processes using hydrophobic membranes 56(1985)277

L. Basini, G. D'Angelo, M. Gobbi, G.C. Sarti and C. Gostoli
A desalination process through sweeping gas membrane distillation 64(1987)245

S. Bandini, C. Gostoli and G.C. Sarti
Role of heat and mass transfer in membrane distillation process 81(1991)91

A. Saavedra, G. Bertoni, D. Fajner and G.C. Sarti
Reverse osmosis treatment of process water streams 82(1991)267

Sary A. A.

S.E. Hedayat, A.A. Sary, S.M. Nawar, M.A. Attia, I.M. El-Osery, Z.A. Sabri and A.A. Husseiny
Design of a small single-purpose nuclear desalination plant compatible with the local resources in the Middle East 20(1977)257

Sasaki H.

T. Nakahara, H. Sasaki, Y. Kanda and H. Togano
Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants 23(1977)151

Sasaki T.

M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura
Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination 96(1994)133

Sasscer D.S.

D.S. Sasscer and U. Ortabasi
Ocean thermal energy conversion (OTEC) tugboats for iceberg towing in tropical waters 28(1979)225

Sastry C.A.

C.A. Sastry and S. Sundaramoorthy
Industrial use of fresh water vis-a-vis reclaimed municipal wastewater in Madras, India 106(1996)443

Sato H.

K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka
Corrosion resistance of titanium in MSF desalination plant 22(1977)403

M. Kondo and H. Sato
Treatment of wastewater from phenolic resin process by pervaporation 98(1994)147

Sato K.

K. Sato, S. Kobayashi and S. Okado
Desalination and reuse of industrial wastewater by electrodialysis 47(1983)363

Sato M.

H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis 25(1978)89

N. Kinjo and M. Sato
Movements of univalent ions in cellulose acetate membranes 27(1978)71

S. Toyama, Y. Nakashima and M. Sato
Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys 40(1982)297

C. Yanagi, M. Sato and Y. Takahara
Treatment of wheat starch waste water by a membrane combined two phase methane fermentation system 98(1994)161

Sato N.

M. Matsuda, C. Kamizawa, H. Masuda, T. Nakane and N. Sato
Recovery of gold from the plating rinse by adsorption with nylon fibers 29(1979)275

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

Sato S.

N. Noguchi, S. Sato, T. Imatake, T. Matsuhara and T. Hamada
Prevention of scale and corrosion on flash evaporators 5 suppl.(1969)879

Sato T.

T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi
RO applications in wastewater reclamation for re-use 23(1977)65

S. Toyama, T. Aragaki, T. Sato and H. Kato
Hold up and flow of liquid film at a horizontal tube bundle 45(1983)289

Satoh H.

T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo
Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube 31(1979)389

H. Satoh
Hydrogen absorption and its prevention of titanium in a simulated descaling environment in a desalination plant 97(1994)45

Satoh M.

N. Choji, W. Pusch, M. Satoh, T.-M. Tak and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 53(1985)347

Satone H.

H. Satone, S. Funahashi and S. Inoue
Experiences on VTE distillation plants in Japan 22(1977)169

Satre M.D.

M.D. Satre and N.D. Ghatge
Aromatic polyamide-hydrazides for water desalination. II. RO membrane performance of terpolymers 91(1993)121

Sattar A.

E.A. Al-Sum, A. Sattar and M. Abdul Aziz
Automation of water treatment plants and its application in power and desalination plants 92(1993)309

D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani
Towards improved automation for desalination processes. Part I: Advanced control 97(1994)469

Sauer C. A.

C.A. Sauer
Characteristics of strong-acid cation exchangers. 1. Optimization of regeneration 51(1984)313

Savage M. P.

J. Reverter, M. Ribeaud and M.P. Savage
An investigation into the problems encountered at the Jeddah III desalination plant when using Belgard EV 47(1983)17

Savage W. F.

J.A. Hunter and W.F. Savage
The U.S. desalting program 6(1969)285

S.C. May, E.H. Houle, S.A. Reed and W.F. Savage
Conceptual design and cost study for a dual purpose nuclear-electric reverse osmosis seawater conversion plant 30(1979)605

Savovic S.

N. Ninic, M. Novakovic, S. Dimitrijevic and S. Savovic
Desalination with a reversible flashing process 89(1993)263

Savvides L.

L. Savvides
Agricultural achievements and irrigation management in Kuwait 72(1989)207

Sawa T.

T. Sawa, K. Izumi and S. Takahashi
Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants 19(1976)369

T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome
The pH control in the large-scale MSF plants by using drop structure type decarbonator 22(1977)415

T. Sawa, M. Kubota, S. Takahashi and Y. Masaki
Development of water re-use treatment system for municipal wastewater 32(1980)373

Sawada H.

M. Al-Sofi, R.D. Peterson, D.L. Moen, Y. Soejima and H. Sawada
Thermal performance of 10 x 5.2 MIGD MSF plants, Al Jobail Phase II 55(1985)357

Sawada S.

M. Oinuma, S. Sawada and K. Yabe
New pretreatment systems using membrane separation technology 98(1994)59

K. Ishiguro, K. Imai and S. Sawada
Effects of biological treatment conditions on permeate flux of UF membrane in a membrane/activated-sludge wastewater treatment system 98(1994)119

Sbeih M.Y.

M.Y. Sbeih
Recycling of treated water in Palestine: Urgency, obstacles and experience to date 106(1996)165

Scenna N. J.

N.J. Scenna
Synthesis of thermal desalination processes. Part I. Multistage flash distillation system (MSF) 64(1987)111

N.J. Scenna
Synthesis of thermal desalination processes. Part II. Multi effect evaporation 64(1987)123

N.J. Scenna and P. Aguirre
Optimal thermodynamic synthesis of dual-purpose desalination plants. Extraction vs. back pressure turbines 81(1991)419

J.M. Montagna, N.J. Scenna and T. Melli
Some theoretical aspects in simulation of multiple stage desalination systems 81(1991)437

Schaal M.

M. Schaal, F.S. Aschner and D. Hasson
Large long-tube vertical evaporators for sea water distillation 10(1972)67-93, Err. 10(1972)220

M. Schaal and F.S. Aschner
Dynamic behavior of thin film sea water evaporators 25(1978)233

A. Beck and M. Schaal
Water requirements of an inland nuclear power station. Engineering and economic aspects 40(1982)19

M. Schaal
Available electricity loss for low grade heat 40(1982)77

M. Schaal, A. Schwartzman and A. Angel
Cost of marginal energy chargeable to desalination in the Israel Electric Corp. generating system 40(1982)87

Schaetzel P.

P. Schaetzel, E. Favre, Q.T. Nguyen and J. Neel
Mass transfer analysis of pervaporation through an ion exchange membrane 90(1993)259

Schäfer S.

R. Rautenbach, S. Schäfer and S. Schleiden
Improved equations for the calculation of non-equilibrium temperature loss in MSF 108(1996)325

Schäfer W.

W. Schafer
Laboratory research on desalination in a magnetic field using permselective membranes 3(1967)174

Scharfe J.

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

Scharff K.

K. Scharff
Testing RO desalination at very high recoveries in the Arabian Gulf (GKSS plate system) 60(1986)117

Scharkova O.V.

S.M. Kulikov, O.M. Kulikova, O.V. Scharkova, R.I. Maximovskaya and I.V. Kozhevnikov
Use of electromembrane technology for waste water treatment and modern acidic catalyst synthesis 104(1996)107

Schaule G.

H.-C. Flemming and G. Schaule
Biofouling on membranes — A microbiological approach 70(1988)95

Schechtman L.

I. Rubinstein, A. Warshawsky, L. Schechtman and O. Kedem
Elimination of acid-base generation ('water-splitting') in electrodialysis 51(1984)55

Scheerman H. J.

J.C. Schippers, H.C. Folmer, J. Verdouw and H.J. Scheerman
Reverse osmosis for treatment of surface water 56(1985)109

Scheffler G.

J. Lammers, G. Scheffler and P. Monheim
Some design aspects deduced from the thermodynamic calculations for MSF desalination plants 22(1977)385-393, Err. 23(1977)588

G. Scheffler and J. Lammers
Integration of MSF desalination plants into large steel works complexes in coastal regions 23(1977)433

Schelkes K.

H. Bender, M. Hobler, H. Klinge and K. Schelkes
Investigations of groundwater resources in Central Jordan 72(1989)161

Scherer C. R.

C.R. Scherer and M.C. Chan
Estimating short-run operating costs for a reverse osmosis desalting plant 18(1976)241

Scherfig J.

G. Belfort and J. Scherfig
Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion 18(1976)43

Schippers J. C.

J.C. Schippers, J. Verdouw and J.M. Hofman
Pretreatment of reverse osmosis feedwater by means of in line coagulation 32(1980)103

J.C. Schippers and J. Verdouw
The modified fouling index, a method of determining the fouling characteristics of water 32(1980)137

J.C. Schippers, J.H. Hanemaayer, C.A. Smolders and A. Kostense
Predicting flux decline of reverse osmosis membranes 38(1981)339

J.C. Schippers, H.C. Folmer, J. Verdouw and H.J. Scheerman
Reverse osmosis for treatment of surface water 56(1985)109

Schirg P.

P. Schirg and F. Widmer
Characterisation of nanofiltration membranes for the separation of aqueous dye-salt solutions 89(1992)89

Schleicher Jr. R. W.

M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters
Power and water co-production feasibility study of Florida power and light power plants 88(1992)267

Schleiden S.

R. Rautenbach, S. Schäfer and S. Schleiden
Improved equations for the calculation of non-equilibrium temperature loss in MSF 108(1996)325

Schmid-Schönbein K-J.

K-J. Schmid-Schönbein
Fouling in boiling liquid (in German) 21(1977)99

Schmidt D. G.

J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
Characterization of clean and fouled ultrafiltration membranes 68(1988)93

Schmidt S.T.

G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza
Vapor-liquid equilibrium in capillary distillation 81(1991)161

Schmitt R. P.

R.P. Schmitt
Military requirements for water supply 19(1976)491

Schmoldt H.

H. Schmoldt, H. Strathmann and J. Kaschemekat
Desalination of sea water by an electrodialysis-reverse osmosis hybrid system 38(1981)567

Schmuckler G.

L. Liberti and G. Schmuckler
Kinetic investigation of the chloride — sulphate exchange on anion-exchange resins 27(1978)253

Schnabel R.

R. Schnabel and W. Vaulont
High-pressure techniques with porous glass membranes 24(1978)249

Schneider K.

K. Schneider and W. Klein
The concentration of suspensions by means of crossflow-microfiltration 41(1982)263

Schneider R.P.

S.B. Sadr Ghayeni, S.S. Madaeni, A.G. Fane and R.P. Schneider
Aspects of microfiltration and reverse osmosis in municipal wastewater reuse 106(1996)25

Schneider W.

W. Schneider and K. Fischbeck
Crystallization of ice from salt solutions (in German) 5(1968)217

W. Schneider and F.V. Waller
Hydrate process performance with low density additives 18(1976)189

W. Schneider and O. Bauer
Laboratory experiments with hyperfiltration membranes 34(1980)11

I.Kamal, W. Schneider and G.F. Tusel
Process arrangements for hybrid sea water desalination plants 76(1989)323

Schnurnberger W.

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Schock G.

G. Schock and A. Miquel
Mass transfer and pressure loss in spiral wound modules 64(1987)339

Schoeman J. J.

J.J. Schoeman, I.J.M. Buys, I.B. Schutte and H. MacLeod
Pilot investigation on the treatment of fertilizer manufacturing process effluent using lime and electrodialysis reversal 70(1988)407

Schofield R. W.

A.G. Fane, R.W. Schofield and C.J.D. Fell
The efficient use of energy in membrane distillation 64(1987)231

R.W. Schofield, A.G. Fane, C.J.D. Fell and R. Macoun
Factors affecting flux in membrane distillation 77(1990)279

Schoppmann B.

B. Schoppmann
Reuse of treated wastewater — A case study in Peru 106(1996)225

Schöttler B.

J. Grigoleit and B. Schöttler
Experience and results on the operation of the common pretreatment at DROP 63(1987)209

R. Nagel
Seawater desalination with polyamide hollow fibre modules at DROP 63(1987)225

Schrack F. C.

B.G. Keefer, R.D. Hembree and F.C. Schrack
Optimized matching of solar photovoltaic power with reverse osmosis desalination 54(1985)89

Schramm V.

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Schrieber C. F.

C.F. Schrieber
Measurements and control related to corrosion and scale in water desalination installations 59(1986)425

Schröder J. J.

J.J. Schröder, P. Fast and W. Sander-Beuermann
Hydrodynamics and heat transfer on vertically finned surfaces in falling film evaporators 31(1979)19

Schroeder D. W.

D.W. Schroeder and P.J. Schroeder
A tubeless evaporator 38(1981)155

Schroeder P.J.

P.J. Schroeder, A.S. Chan and A.R. Khan
Freezing processes — the standard of the future 21(1977)125

P.J. Schroeder
Five demos is a good start 30(1979)5

P.J. Schroeder
Freezing processes — The standard of the future — An update 33(1980)299

D.W. Schroeder and P.J. Schroeder
A tubeless evaporator 38(1981)155

Schuette B.

F. Bergmann and B. Schuette
The integration of a reverse osmosis installation in the fully automated operation of a rural water supply company 49(1984)203

Schulz G.

G. Schulz and U. Werner
Gas separation using the membrane rectification technique 51(1984)123

G. Schulz
Separation techniques with supported liquid membranes 68(1988)191

Schulze H.-D.

U. Rohlfs and H.-D. Schulze
Possibilities of corrosion prevention and removal in seawater exposed structures and desalination plants 55(1985)283

H.-D. Schulze, U. Rohlfs and K. Thies
Enhancement of availability through the early detection of damage in desalination plants 55(1985)297

K. Thies, U. Rohlfs and H.-D. Schulze
Enhancement of the availability of desalination plants by means of in service inspections 55(1985)387

Schutte C. F.

C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom
Desalination and reuse of power plant effluents: From pilot plant to full scale application 67(1987)255

C.A. Buckley, A.E. Simpson, C.A. Kerr and C.F. Schutte
The treatment and disposal of waste brine solutions 67(1987)431

Schutte I. B.

J.J. Schoeman, I.J.M. Buys, I.B. Schutte and H. MacLeod
Pilot investigation on the treatment of fertilizer manufacturing process effluent using lime and electrodialysis reversal 70(1988)407

Schwab C.

C. Schwab, U. Kulozik and H.G. Kessler
Effect of structure controlled deposited layers on the retention of flavour compounds in reverse osmosis 90(1993)173

Schwartz E. D.

E.D. Schwartz and L.L. Murphy
Design, permitting and construction of a membrane treatment facility: The New Rochelle (NY) experience 102(1995)63

Schwartz J.

J. Schwartz and R.F. Probstein
Analysis of counterwashers for freeze distillation desalination 4(1968)5

Schwartzkopf S.

B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf
The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog 87(1992)97

Schwartzman A.

M. Schaal, A. Schwartzman and A. Angel
Cost of marginal energy chargeable to desalination in the Israel Electric Corp. generating system 40(1982)87

Schwarz H.-H.

V. Richau, H.-H. Schwarz, H. Buschatz and V. Kudela
Asymmetric behavior of membranes in pressure driven processes 46(1983)447

K. Richau, C. Eisold, V. Kudela, H.-H. Schwarz and D. Paul
Electrochemical characterization of charged membranes and membrane systems 104(1996)19

Schweigart H.

H. Schweigart
Preferential chloride-sulfate ion transport in electrodialysis using tetra-allylammonium chloride membranes prepared by a modified method 2(1967)154

Sciuto A.J.

V. Cinanni, I.A. Gough and A.J. Sciuto
A water treatment and recovery plant for highly acidic heavy metal laden effluents 106(1996)145

Scott R.F.

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Seach L. A.

L.A. Seach, W.T. VanWagoner and J.M. Spacht
Future reclaimed water use in the Northeast San Fernando Valley 88(1992)225

Seamans M.

A. Garcia, H.M. Rivas, J.L. Figueroa and A.L. Monroe
Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company 102(1995)255

Seaton R. E.

A. Al-Gholaikah, N. El-Ramly, I. Jamjoom and R. Seaton
The world's first large seawater reverse osmosis desalination plant, at Jeddah, Kingdom of Saudi Arabia 27(1978)215

C.E. Hickman, I. Jamjoom, A.B. Riedinger and R.E. Seaton
Jeddah seawater reverse osmosis installation 30(1979)259

Sedahmed G.H.

W. El-Shal, H. Khordagui, O. El-Sebaie, F. El-Sharkawi and G.H. Sedahmed
Electrochemical generation of ozone for water treatment using a cell operating under natural convection 99(1994)149

Sedlov A. S.

O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
Make-up water treatment at thermal power plants and multiple waste water reuse 47(1983)321

A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina
Small-waste technology of processing industrial waste water on the basis of thermal demineralization 108(1996)361

Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
Experimental investigation of the dryout at low mass velocities and pressures 108(1996)375

Seeger H.

K. Marquardt, R. Nagel and H. Seeger
Seawater desalination by reverse osmosis 46(1983)135

Segel L.A.

O. Kedem, I. Rubinstein and L.A. Segel
Reduction of polarization by ion-conduction spacers: Theoretical evaluation of a model system 27(1978)143

Seifert A.

K. Genthner, S. Khalaf, W. Ruehle and A. Seifert
The effect of preheater design on corrosion, heat transfer and operation of MSF-distillers 65(1987)171

A. Seifert and K. Genthner
A model for stagewise calculation of non-condensable gases in multi-stage evaporators 81(1991)333

K. Genthner and A. Seifert
A calculation method for condensers in multi-stage evaporators with non-condensable gases 81(1991)349

K. Genthner, A. Gregorzewski and A. Seifert
The effects and limitations issued by non-condensible gases in sea water distillers 93(1993)207

Seigworth A.

A. Seigworth, R. Ludlum and E. Reahl
Case study: Integrating membrane processes with evaporation to achieve economical zero liquid discharge at the Doswell Combined Cycle Facility 102(1995)81

Sekino M.

H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai
Single-pass desalination of high salinity seawater with reverse osmosis 38(1981)441

S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino
New disinfection method in RO seawater desalination systems 96(1994)191

N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto
The reference and analysis of a double-element type hollow fiber RO module in seawater desalination 96(1994)441

M. Sekino
Study of an analytical model for hollow fiber reverse osmosis module systems 100(1995)85

Selak P.J.

P.J. Selak, J. Finke and A.L. Lindsay
The architect-engineer-constructor's role in future nuclear desalination projects 5 suppl.(1969)847

Selegny E.

M. Metayer, C. Bourdillon and E. Selegny
Concentration polarization on ion-exchange membranes in electrodialysis with natural convection: Estimating interfacial concentrations by measurement of membrane potential decay caused by concentration relaxation after current cut-off 13(1973)129

C. Ripoll, M. Labbe, L. Lavielle and E. Selegny
Simultaneous automatic measurement of salt and water fluxes through a charged membrane 41(1982)289

D. Langevin, M. Métayer, M. Labbé, B. Pollet, M. Hankaoui, E. Sélégny and S. Roudesli
Transport reaction through ion-exchange membranes: Modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions 68(1988)131

Selleck R. E.

B.J. Mariñas and R.E. Selleck
Desalination of agricultural drainage return water. Part II: Analysis of the performance of a 13,000 GDP RO unit 61(1987)263

Selli E.

B. Marcandalli, E. Selli, R. Tacchi, I.R. Bellobono and G. Leidi
A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients 51(1984)113

Selover E.

S. Loeb and E. Selover
Sixteen months of field experience on the Coalinga pilot plant 2(1967)75

Selvaraj R.

R. Selvaraj, P.B. Deshpande, S.S. Tambe and B.D. Kulkarni
Neural networks for the identification of MSF desalination plants 101(1995)185

Semenova L. S.

E.V. Konstantinova and L.S. Semenova
Corrosion of mild steel under operating conditions of a distillation desalting plant 5(1968)90

Semenova S.I.

S.I. Semenova, H. Ohya and K. Soontarapa
Hydrophilic membranes for pervaporation: An analytical review 110(1997)251

Semeonov G. G.

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Semeonova Z. S.

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Semiat R.

S. Sideman, D. Moalem and R. Semiat
Theoretical analysis of horizontal condenser-evaporator conduits of various cross-sections 17(1975)167

D. Moalem, S. Sideman and R. Semiat
Simultaneous film evaporation and condensation on a two-directionally inclined surface 21(1977)51

S. Sideman, D. Moalem and R. Semiat
Performance improvement of horizontal evaporator-condenser desalination units 21(1977)221

R. Semiat, D. Moalem-Maron and S. Sideman
Transfer characteristics of convex and concave rivulet flow on inclined surfaces with straight-edged grooves 34(1980)267

D. Moalem-Maron, R. Semiat and S. Sideman
Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes 34(1980)289

D. Bramson, D. Hasson and R. Semiat
The roles of gas bubbling, wall crystallization and particulate deposition in CaSO4 scale formation 100(1995)105

D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob
Fouling of RO membranes by phthalate esters contamination 105(1996)13

D. Hasson, D. Bramson, B. Limoni-Relis and R. Semiat
Influence of the flow system on the inhibitory action of CaCO3 scale prevention additives 108(1996)67

Senatore S.J.

S.J. Senatore and E.N. Sieder
Conceptual design studies of a dual-purpose and a vapour-compression water-only 750-MGD plant 5 suppl.(1969)557

S.J. Senatore
Vapor compression distillation 31(1979)135

S.J. Senatore
Vapor compression distillation with maximum use of waste heat 38(1981)3

S.J. Senatore
Vapor compression distillation 42(1982)153

S.J. Senatore
Desaltlng water costs using waste heat from power systems combined with the VTFE and vapor compression 44(1983)129

Seno M.

T. Yamabe and M. Seno
Concentration polarization effect in ion exchange membrane electrodialysis 2(1967)148

S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno
Reverse osmosis membranes from aromatic polymers 21(1977)183

M. Igawa, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by dynamic membranes 22(1977)281

H. Nomura, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by composite charged membranes 29(1979)239

Seo G.T.

G.T. Seo, Y. Suzuki and S. Ohgaki
Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse 106(1996)39

Sephton H. H.

H.H. Sephton
Upflow vertical tube evaporation of sea water with interface enhancement: Process development by pilot plant testing 16(1975)1

H.L. Fong, C.J. King and H.H. Sephton
Upflow vertical tube evaporation with interface enhancement: pressure drop reduction and heat transfer enhancement by the addition of a surfactant 16(1975)15

E. Valdes-Krieg, C.J. King and H.H. Sephton
Removal of surfactants and particulate matter from sea water desalination blowdown brines by foam fractionation 16(1975)39

H.H. Sephton and G. Klein
A method of using irrigation drainage water for power plant cooling 19(1976)257-268, Err 21(1977)234

H.H. Sephton
Vapor compression vertical tube foam evaporation 23(1977)299

H.H. Sephton
Vertical tube foam evaporation for fresh water production using power plant waste-heat 31(1979)187

H.H. Sephton
Development of distillation processes responsive to energy cost escalations 40(1982)375

H.H. Sephton
Vertical tube foam evaporation for water desalination 42(1982)27

H.H. Sephton
Process sequence for using saline water as power plant coolant 56(1985)1

R.P. Hammond, D.M. Eissenberg, D.K. Emmerman, J.E. Jones, Jr. and H.H. Sephton
Large-scale sea-water distillation for Southern California 87(1992)69

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Septién J. A.

J.A. Septién and J.F. del Valle
Study of polyurethane foam for tubular membrane support (in Spanish) 19(1976)405

Serageldin S.G.

M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky
Comparison between the use of a baffle and a wire mesh in flashing units 19(1976)83

M.A. Darwish, S.G. Serageldin and H.T. El-Dessouky
Flashing in desalination units 19(1976)93

S.G. Serag-El-Din and S.S. Mekhemar
Significance of effects in a reverse osmosis desalination unit 51(1984)231

Sergeenko I. L.

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Serizawa S.

M. Kishi, S. Serizawa and M. Nakano
New electrodialyser system with automatic chemical cleaning 23(1977)203

Seroy M. W.

R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
Spiral-wound poly(ether/amide) thin-film composite membrane systems 19(1976)113

R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis 23(1977)331

Servida A.

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

Seto T.

T. Seto, H. Kawate and R. Komori
Development of ion exchange membrane technology 22(1977)495

T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa
Seawater desalination by electrodialysis 25(1978)1

Setogawa S.

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

Seul K. W.

Kwangwon Seul and Sangyong Lee
Numerical predictions of evaporative behaviors of horizontal stream inside a multi-stage-flash distillator 79(1990)13

Kwangwon Seul and Sangyong Lee
Effect of liquid level on flow behaviors inside a multi-stage flash evaporator - A numerical prediction 85(1992)161

Severova T. A.

O.M. Lebedeva, A.H. Lebedev, M.N. Fokin, S.V. Lomakina and T.A. Severova
Corrosion behaviour of aluminium-base alloys in desalination plants 73(1989)457

Sexsmith D. R.

D.R. Sexsmith and E.Q. Petrey
The use of polyelectrolytes for scale control in sea water evaporators 13(1973)89

Seybold I.

J. Kerres, G. Eigenberger, S. Reichle, V. Schramm, K. Hetzel, W. Schnurnberger and I. Seybold
Advanced alkaline electrolysis with porous polymeric diaphragms 104(1996)47

Shaban H. I.

G.A. Al-Enezi, H. Shaban and M.S.E. Abdo
Total organic carbon reduction of phenol-containing wastewaters by oxidation techniques 95(1994)1

H. El-Dessouky, H.I. Shaban and H. Al-Ramadan
Steady-state analysis of multi-stage flash desalination process 103(1995)271

Shaffer L.H.

L.H. Shaffer, R.A. Knight and D.A. Smith
Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium 2(1967)125

Shah B. G.

V.K. Indusekhar, G.S. Trivedi and B.G. Shah
Removal of nitrate by electrodialysis 84(1991)213

Shah V. J.

V.J. Shah, R.M. Kava, A.V. Rao and M.M. Taqui Khan
A mobile reverse osmosis demonstration plant 69(1988)161

Shaheen E. I.

E.I. Shaheen and S.N.S. Dixit
Scale reduction in saline water conversion 13(1973)187

Shain P.

P. Shain, G. Klein and T. Vermeulen
A mathematical model of the cyclic operation of desalination- feedwater softening by ion-exchange with fluidized-bed regeneration 69(1988)135

Shakshooki S. K.

Y.M. El-Sayed, S.K. Shakshooki, J.A. Jawad and Y. Matar
Desalting saline ground water for agriculture 19(1976)175

Shalewitz B.

T.H. Bagwell, Jr., B. Shalewitz and A. Coleman
The Army water supply program: An overview 99(1994)409

Shalewitz R.

B. Tansel, J. Regula and R. Shalewitz
Treatment of fuel oil and crude oil contaminated waters by ultrafiltration membranes 102(1995)301

Shallal Z. M.

Z.M. Shallal
Operation and maintenance of reverse osmosis water desalination plant of the Kuwait Oil Company 63(1987)193

Shamim M.

H. Saricimen, M. Shamim, I.M. Allam and M. Maslehuddin
Performance of austenitic stainless steels in MSF desalination plant flash chambers in the Arabian Gulf 78(1990)327

Shams J.

M.M. Elsayed, K. Fathalah, J. Shams and J. Sabbagh
Performance of multiple effect diffusion stills 51(1984)183

Shams El Din A. M.

A.M. Shams El Din
The problem of "red waters": A new approach to its solution 60(1986)75

A.M. Shams El Din
A 600-day experiment with polyphosphate as anti-scale agent in MSF distillers 61(1987)89

A.M. Shams El Din and R.A. Mohammed
Uptake of calcium and magnesium from the Arabian Gulf water on plastic and glass surfaces 61(1987)245

A.M. Shams El Din
A 700-day experiment with Belgard EV-2000 as anti-scale agent in MSF distillers 69(1988)147

A.M. Shams El Din and R.A. Mohammed
On the thermal stability of the HCO3—and the CO32— ions in aqueous solutions 69(1988)241

A.M. Shams El Din and N.J. Paul
Oxide film thickening on some molybdenum-containing stainless steels used in desalination plants 69(1988)251

A.M. Shams El Din and R.A. Mohammed
The problem of alkaline scale formation from a study on Arabian Gulf water 71(1989)313

A.M. Shams El Din and A.M.K. Tag El Din
Electrochemical monitoring of the process of boiler cleaning 75(1989)171

A.M. Shams El Din, R.A. Arain and A.A. Hammoud
A contribution to the problem of trihalomethane formation from the Arabian Gulf water 85(1991)13

A.M. Shams El Din
Effect of residual and minor constituents on the corrosion behaviour of some technically important alloys 93(1993)487

A.M. Shams El Din
Copper alloys for desalination plants 93(1993)499

A.M. Shams El Din, S. Aziz and B. Makkawi
Electricity and water production in the Emirate of Abu Dhabi and its impact on the environment 97(1994)373

A.M. Shams El Din and R.A. Mohammed
Brine and scale chemistry in MSF distillers 99(1994)73

A.M. Shams El Din, A.A. Hammoud and R.A. Arain
Physico-chemical studies on BELGARD EV and BELGARD EV2000 solutions. Part I: Their densities and viscosities at various dilutions and temperatures 103(1995)199

A.M. Shams El Din and Linfu Wang
Mechanism of corrosion inhibition by sodium molybdate 107(1996)29

A.M. Shams El Din, T.M.H. Saber and A.A. Hammoud
Biofilm formation on stainless steels in Arabian Gulf water 107(1996)251

A.M. Shams El Din, T.M.H. Saber and A.M. Taj El Din
Titanium hydride formation from Arabian Gulf water 107(1996)265

A.M. Shams El Din and R.A. Mohammed
Physico-chemical studies on BELGARD EV and BELGARD EV 2000 solutions. Part II. Potentiometric and conductometric acid-base titrations 107(1996)277

H.I. Al Hossani, T.M.H. Saber, R.A. Mohammed and A.M. Shams El Din
Galvanic corrosion of copper-base alloys in contact with molybdenum-containing stainless steels in Arabian Gulf water 109(1997)25

Shao XinMing

Zhu Chang-Lue and Shao Xin-Ming
A brief discussion of numerical simulation for pervaporation in capillary permeator 62(1987)283

Sharma S. K.

D. Singh and S.K. Sharma
Performance ratio, area economy and economic return for an integrated solar energy/multi-stage flash desalination plant 73(1989)191

Sharpf C.

W.K. Davis, L. Galstaun and C. Sharpf
Dual-purpose plant (150 mgd) for the Metropolitan Water District of Southern California 2(1967)227

Sharples P. M.

P.M. Sharples and B.A. Bolto
Desalting in Australia: The development of a new process for brackish water 20(1977)391

Shatsillo V. G.

V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novikov and V.I. Tkach
Prevention of scale formation in distillation desalination plants by means of seeding 1(1966)50

F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience 1(1966)165

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

V.B. Chernozubov, E.P. Novikov, Y.V. Kartovski, S.I. Golub and V.G. Shatsillo
Test of the desalting flash pilot plant with recirculating seed 5(1968)34

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

N.M. Sinev, V.G. Shatsillo, V.B. Chernozobov, A.A. Samarkin and J.S. Baranov
Investigation of water desalination by distillation technique 45(1983)315

Shaw R.A.

R.A. Shaw, R. Deluca and W.N. Gill
Reverse osmosis: Increased productivity by reduction of concentration polarization in laminar flow reverse osmosis using intermediate non-rejecting membrane sections 11(1972)189

Shawly A. A. A.

A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant 44(1983)17

She Jian

She Jian and Shen Xiao Ming
Crosslinked PVA-PS thin-film composite membrane for reverse osmosis 62(1987)395

Sheikh B.

B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
Health and safety aspects of irrigation of raw eaten food crops with reused water 39(1981)491

B. Sheikh, R.S. Jaques and R.P. Cort
Reuse of tertiary municipal wastewater effluent for irrigation of raw-eaten food crops: A five year field study 67(1987)245

Shen J. S.

R.F. Probstein, J.S. Shen and W.F. Leung
Ultrafiltration of macromolecular solutions at high polarization in laminar channel flow 24(1978)1

Shen Xiao Ming

She Jian and Shen Xiao Ming
Crosslinked PVA-PS thin-film composite membrane for reverse osmosis 62(1987)395

Shen Yanzhang

Qu Jing-Xu, Qian Yao-Nan and Shen Yan-Zhang
An experimental study for separation of NaCl from SAS by electrodialysis with ion exchange membranes 64(1987)329

Sheng J.

Jin Sheng, R.A. Johnson and M.S. Lefebvre
Mass and heat transfer mechanisms in the osmotic distillation process 80(1991)113

Sheng Jin

Jin Sheng and J.C. Mora
Pervaporation and dehydration of water-ethanol mixtures by means of cuprophan hollow fiber membranes 80(1991)71

Jin Sheng
Separation of dichloroethane-trichloroethylene mixtures by means of a membrane pervaporation process 80(1991)85

Jin Sheng and M.S. Lefebvre
Diluted brine concentration process using membrane pervaporation technique: Laboratory scale studies 91(1993)253

Sheng Liming

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Sheppard G.

G. Sheppard
Disaster (hurricane) preparedness. Public (water) utility 98(1994)479

Sheppard J.D.

J.D. Sheppard and D.G. Thomas
Effect of high axial velocity on performance of cellulose acetate hyperfiltration membranes 8(1970)1

J.D. Sheppard, D.G. Thomas and K.C. Channabasappa
Membrane fouling. Part IV. Parallel operation of four tubular hyperfiltration modules at different velocities with feeds of high fouling potential 11(1972)385

J.D. Sheppard and D.G. Thomas
Engineering development of hyperfiltration with dynamic membranes. Part II. Brackish water pretreatment pilot plant 15(1974)307

D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard
Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed 15(1974)325

Shi Song

Song Shi and Pei-qi Chen
Design and field trials of a 200 m3/day sea water desalination by electrodialysis 46(1983)191

Shieh Muchang

Kwanglung Lin, Minlin Chu and Muchang Shieh
Treatment of uranium containing effluents with reverse osmosis process 61(1987)125

Gingho Hsiue, Liehsheng Pung, Minlin Chu and Muchang Shieh
Treatment of uranium effluent by reverse osmosis membrane 71(1989)35

Shields C.P.

C.P. Shields
Five year's experience with reverse osmosis systems using Du Pont "Permasep" permeators 28(1979)157

T.J. Eckman, I. Moch, Jr. and C.P. Shields
The TWINTM permeator - Development and commercialization of a new RO device 96(1994)11

Shigorin V. G.

V.G. Shigorin
Anticorrosion coatings for equipment and pipelines of desalting plants 44(1983)277

Shih J. S.

A.M. El-Nashar and J.S. Shih
An investigation of using statistically designed experiments and a computer model 38(1981)397

Shimizu A.

T.J. Rabas, S. Inoue and A. Shimizu
An update on the mass transfer of counterflow, packed deaerators containing pall-ring packing 66(1987)91

Shimizu I.

Y. Fujioka, M. Soda, M. Zama and I. Shimizu
Prevention of the scale trouble of multi-effect stacked desalination plant 73(1989)371

Shimogori K.

K. Shimogori, H. Sato, F. Kamikubo and T. Fukuzuka
Corrosion resistance of titanium in MSF desalination plant 22(1977)403

T. Fukuzuka, K. Shimogori, H. Satoh and F. Kamikubo
Corrosion problems and their preventions of MSF desalination plant constructed with titanium tube 31(1979)389

Shimozato A.

O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike
Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale 22(1977)515

Shimron Z.

Z. Shimron
Economics of brackish and desalination water reuse for irrigation 98(1994)471

Shinde B. M.

J. Adduci, L.L. Chapoy, G. Jonsson, J. Kops and B.M. Shinde
Semi-stiff chain aromatic polyamic-acids: new candidates for reverse osmosis membranes 46(1983)349

Shindo I.

K. Kosaka, T. Iwatsuka, I. Shindo, A. Hotogi and S.S. Dabby
Development of new type thermally regenerable ion exchange plant 22(1977)505

Shindo N.

N. Shindo, Y. Otani, G. Inoue and K. Kawazoe
Water treatment by pitch-based activated carbon fiber 98(1994)155

Shingai M.

E. Oikawa, M. Shingai, K. Motomi and T. Aoki
Pervaporation separation of water-ethanol mixture through the membrane of poly(thioether-amide)s prepared from aromatic amide and 1,4-benzenedithiol 101(1995)69

Shinoda M.

A. Yamauchi, M. Shinoda and Y. Hirata
Membrane phenomena of an amphoretic membrane in mixed electrolyte solution 71(1989)277

A. Yamauchi, Y. Hirata and M. Shinoda
Relation between transport number and concentration of Donnan salt in membranes 80(1991)61

Shinohara T.

S. Kido and T. Shinohara
Corrosion under heat flux encountered in desalination plant 22(1977)369

Shintani T.

I. Kawada, K. Inoue, Y. Kazuse, H. Ito, T. Shintani and Y. Kamiyama
New thin-film composite low pressure reverse osmosis membranes and spiral wound modules 64(1987)387

Shipilov V. Y.

V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov
Floating nuclear desalination plant AFWS-40 89(1992)21

Shirahama E.

E. Shirahama and M. Kiyozuka
Golf course construction plans and water quality preservation 98(1994)505

Shischenko V.V.

A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina
Small-waste technology of processing industrial waste water on the basis of thermal demineralization 108(1996)361

Shishliannikov L. A.

L.A. Shishliannikov and F.B. Alzhanov
Operating experience of EDU-series electrodialysis plants used in different industries in the USSR 58(1986)77

Shkondin Y.A.

Y.A. Kuzma-Kichta, A.S. Sedlov, A.I. Abramov, Y.A. Shkondin, D.V. Buyakov and S.A. Borisov
Experimental investigation of the dryout at low mass velocities and pressures 108(1996)375

Shor A. J.

K.A. Kraus, H.O. Phillips, A.E. Marcinkowsky, J.S. Johnson and A.J. Shor
Hyperfiltration studies VI. Salt rejection by dynamically-formed polyelectrolyte membranes (I) 1(1966)225

K.A. Kraus, A.J. Shor and J.S. Johnson, Jr.
Hyperfiltration studies. X. Hyperfiltration with dynamically-formed membranes 2(1967)243

Shorr J.

J. Shorr and F.B. Leitz
Development of membranes and resins for piezodialysis 14(1974)11

Short J. L.

J.L. Short
Newer applications for crossflow membrane filtration 70(1988)341

Shtim A.

V. Slesarenko and A. Shtim
Comparative analysis of the efficiency of thermal desalination plants 37(1981)269

V.N. Slesarenko and A.S. Shtim
Exergy analysis of multi-stage desalination plants 61(1987)1

V. Slesarenko and A. Shtim
Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants 71(1989)203

Shuchman R.

R. Rawson, R. Larson, R. Shuchman and R. Worsfold
The capability of SAR systems for iceberg detection and characterization 29(1979)109

Shuchun Bi

Chen Jiayan, Bi Shuchun, Zhang Xingda and Zheng Lingying
Morphology of aromatic polyamide type asymmetric reverse osmosis membranes 34(1980)97

Shügerl K.

K. Schügerl, A. Mohrmann, W. Gutknecht and H.-B. Hauertmann
Application of liquid membrane emulsion for recovery of metals from mining waste waters and zinc liquors 53(1985)197

Shuguang Li

Li Shuguang, Jiang Chengzhang and Zhang Yuanqi
The investigation of solution thermodynamics for the polysulfone—DMAC—water system 62(1987)79

Shuhaibar Y. K.

Y.K. Shuhaibar
Near East desalting — The conservative approach 17(1975)69

Shulika V. P.

A.M. Kusavsky and V.P. Shulika
Heat regime of ion-exchange membranes' performance 46(1983)203

Shwartz J.

J. Shwartz and R.F. Probstein
Experimental study of slurry separators for use in desalination 6(1969)239

Siddiqi N.A.

A.U. Malik, N.A. Siddiqi and I.N. Andijani
Corrosion behavior of some highly alloyed stainless steels in seawater 97(1994)189

Siddiqi R. H.

H.A. Khararjian, R.H. Siddiqi and S. Farooq
Chemical treatment for reuse of wastewater effluents in Saudi Arabia 38(1981)437

Siddiqui M. A.

M.M. Tare, M.K. Gada, M.A. Siddiqui and M.H. Mehta
Economics of desalination in water resource management — A comparison of alternative water resources for arid/semi arid zones in developing countries 81(1991)57

Sideman S.

S. Sideman and J. Isenberg
Direct contact heat transfer with change of phase: bubble growth in three-phase systems 2(1967)207

S. Sideman, D. Moalem and R. Semiat
Theoretical analysis of horizontal condenser-evaporator conduits of various cross-sections 17(1975)167

D. Moalem, S. Sideman and R. Semiat
Simultaneous film evaporation and condensation on a two-directionally inclined surface 21(1977)51

S. Sideman, D. Moalem and R. Semiat
Performance improvement of horizontal evaporator-condenser desalination units 21(1977)221

D. Maron-Moalem, S. Sideman and A.E. Dukler
Dripping characteristics in a horizontal tube film evaporator 27(1978)117

S. Sideman and A. Levin
Effect of the configuration on heat transfer to gravity driven films evaporating on grooved tubes 31(1979)7

R. Semiat, D. Moalem-Maron and S. Sideman
Transfer characteristics of convex and concave rivulet flow on inclined surfaces with straight-edged grooves 34(1980)267

D. Moalem-Maron, R. Semiat and S. Sideman
Enhanced heat transfer in horizontal evaporator-condensers with straight-edged grooved tubes 34(1980)289

Sidorova S.V.

A.S. Sedlov, I.P. Ilyina, S.V. Sidorova, V.V. Shischenko and E.N. Potapkina
Small-waste technology of processing industrial waste water on the basis of thermal demineralization 108(1996)361

Sieder E.N.

S.J. Senatore and E.N. Sieder
Conceptual design studies of a dual-purpose and a vapour-compression water-only 750-MGD plant 5 suppl.(1969)557

E.N. Sieder and I. Spiewak
Development of technology applicable to 50-MGD and larger sea-water distillation plants 5 suppl.(1969)829

Siegelman D.

G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson
Development of a eutectic freezing process for brine disposal 15(1974)25

Sienkiewich A.

A. Sienkiewich
Financing groundwater desalination in Southern California 87(1992)175

Sigmond Gy.

J. Halzl, Gy. Sigmond, Z. Szabó and M. Torma
Application of nuclear reactors to the alumina and aluminum industry 5 suppl.(1969)773

Sigon F.

F. Sigon
Automated continuous monitoring of sulphate contents in brines 47(1983)71

Sikora J.

J. Sikora, C-H. Hansson and B. Ericsson
Pre-treatment and desalination of mine drainage water in a pilot plant 75(1989)363

Silbernagel M.

J. Lozier, E. Oklejas and M. Silbernagel
The hydraulic turbochargerTM: A new type of device for the reduction of feed pump energy consumption in reverse osmosis systems 75(1989)71

M. Silbernagel, T. Kuepper and E. Oklejas
Evaluation of a pressure boosting pump/turbine device for reverse osmosis energy recovery: Extended testing on a seawater desalination system 88(1992)311

Silingardi G. E.

P. Gioli, G.E. Silingardi and G. Ghiglio
High quality water from refinery waste 67(1987)271

Siller O. P.

J.S. Mejorada and O.P. Siller
Construction of flash distillation units with structurally independent stages (in Spanish) 19(1976)269

Silver R S.

A.N. Dickson and R.S. Silver
Flow of flashing water in conduits 2(1967)175

R.S. Silver
Multi-stage flash distillation. The first 10 years 9(1971)3

R.S. Silver
An assessment of multiple effect boiling distillation in relation to multi-stage flash distillation 9(1971)235

R.S. Silver
For want of a nail 31(1979)39

R.S. Silver
Use and abuse of thermodynamic criteria 40(1982)231

R.S. Silver
Technological and environmental aspects of desalination 42(1982)1

R.S. Silver
Acceptance speech of Prof. Robert S. Silver upon receipt of the UNESCO Prize for Science1968 for his basic work on the multi-stage flash process: completed contract for first ever MSF units for Kuwait 1960 50(1984)11

R.S. Silver
Desalination — The distant future 68(1988)1

Silvester D.R.V.

J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence
The corrosion of aluminium alloys in hot brine 9(1971)245

Simandl J.

F.A. Banat and J. Simandl
Theoretical and experimental study in membrane distillation 95(1994)39

Simon G. P.

G.P. Simon and C. Calman
Experimental methods for the determination of non-transport properties of membranes 59(1986)61

Simoncelli C.

G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa
Factors affecting the corrosion behaviour of CN 108 alloy in sea water 74(1989)259

Simonet R. A.

R.A. Simonet
Methane recovery from landfill gas in order to produce natural gas by means of membranes 53(1985)289

Simons R.

R. Simons and O. Kedem
Hyperfiltration in porous fixed charge membranes 13(1973)1

R. Simons
The origin and elimination of water splitting in ion exchange membranes during water demineralisation by electrodialysis 28(1979)41

R. Simons
Development of an acid impermeable anion exchange membrane 78(1990)297

R. Simons
Trace element removal from ash dam waters by nanofiltration and diffusion dialysis 89(1993)325

Simpson A. E.

A.E. Simpson, C.A. Kerr and C.A. Buckley
The effect of pH on the nanofiltration of the carbonate system in solution 64(1987)305

C.A. Buckley, A. Bindoff, C.A. Kerr, A. Kerr, A.E. Simpson and D.W. Cohen
The use of speciation and X-ray techniques for determining pretreatment steps for desalination 66(1987)327

O.O. Hart, A.E. Simpson, C.A. Buckley, G.R. Groves and F.G. Neytzell-de Wilde
The treatment of industrial effluents with high salinity and organic contents 67(1987)395

A.E. Simpson and C.A. Buckley
The treatment of industrial effluents containing sodium hydroxide to enable the reuse of chemicals and water 67(1987)409

C.A. Buckley, A.E. Simpson, C.A. Kerr and C.F. Schutte
The treatment and disposal of waste brine solutions 67(1987)431

A.E. Simpson and C.A. Buckley
The removal of sulphuric acid from natural and industrial waste waters 70(1988)431

Simpson H. C.

H.C. Simpson and M. Hutchinson
Calcium sulphate scale deposition in sea water evaporators 2(1967)308

H.C. Simpson, G.C. Beggs, J. Deans and J. Nakamura
Growth of ice crystals 14(1974)341

H.C. Simpson, G.C. Beggs and M. Nazir
Evaporation of butane drops in brine 15(1974)11

H.C. Simpson, G.C. Beggs, J. Nakamura and A. Baxter
The C-axis growth rate of ice crystals 18(1976)219

Simpson M. J.

G.R. Groves, C.A. Buckley, J.M. Cox, A. Kirk, C.D. MacMillan and M.J. Simpson
Dynamic membrane ultrafiltration and hyperfiltration for the treatment of industrial effluents for water reuse 47(1983)305

M.J. Simpson and G.R. Groves
Treatment of pulp/paper bleach effluents by reverse osmosis 47(1983)327

Sims G.V.

G.V. Sims and I. Kamal
Retrofitting and repowering of coastal power stations to augment water supplies in Southern California 94(1994)251

I. Kamal and G.V. Sims
Thermal cycle and financial modeling for the optimization of dual-purpose power-cum-desalination plants 109(1997)1

Sinev M. M.

N.M. Sinev, V.G. Shatsillo, V.B. Chernozobov, A.A. Samarkin and J.S. Baranov
Investigation of water desalination by distillation technique 45(1983)315

Singh A.

K. Singh and A. Singh
Electrodriven solute transport studies on an impregnated zirconium phosphate membrane 101(1995)115

Singh A. K.

G.N. Tiwari and A.K. Singh
Thermal efficiency of double slope FRP solar distiller: An analytical and experimental studies 82(1991)223

Singh A.V.

A.V. Singh, S. Gupta and S.C. Gupta
Synthesis of a guaran-sulphonic acid cation-exchanger and its application in metal ion removal from underground mine water of the Rajpura Dariba Mines, Udaipur, India 104(1996)235

Singh D. P.

D. Singh and S.K. Sharma
Performance ratio, area economy and economic return for an integrated solar energy/multi-stage flash desalination plant 73(1989)191

B. Chakravorty and D.P. Singh
Concentration and purification of gelatin liquor by ultrafiltration 78(1990)279

Singh I.

M.S. Suwandi and I. Singh
Optimum arrangement of membranes in a multistage ultrafiltration 70(1988)327

Singh K.

R.P. Rastogi, K. Singh and B.M. Misra
Thermo-osmosis and electro-osmosis of water and electrophoresis of suspensions in water 3(1967)32

K. Singh and A. Singh
Electrodriven solute transport studies on an impregnated zirconium phosphate membrane 101(1995)115

Singh R.

R. Singh and S.V. Cabibbo
Hydraulic turbine energy recovery — RO system 32(1980)281

R. Singh
Characteristics of a chlorine-resistant reverse osmosis membrane 95(1994)27

Sinkovic J.

C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler
Polarization at ion-exchange membranes in electrodialysis 10(1972)181

Sirkar K.K.

G.H. Rao and K.K. Sirkar
Explicit flux expressions in tubular reverse osmosis desalination 27(1978)99

K.K. Sirkar and G.H. Rao
Short cut design methods for reverse osmosis separation with tubular modules 48(1983)25

Sitnyakovsky J.A.

F.N. Karelin, J.A. Sitnyakovsky, A.F. Romanov, W.W. Konkin and O.F. Parilova
New solutions for construction of pressure-driven membrane equipment 108(1996)315

Siudak R. V.

B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis
An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin 13(1973)269

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XIV. Thermally regenerable resin systems with high capacities 34(1980)171

B.A. Bolto, K.H. Eppinger, M.B. Jackson and R.V. Siudak
An ion-exchange process with thermal regeneration. XVI. Oxygen-resistant polyamine resins 42(1982)273

Sivakov A.V.

S.P. Agashichev and A.V. Sivakov
Modeling and calculation of temperature-concentration polarisation in the membrane distillation process (MD) 93(1993)245

Sivik B.

E. Matthiasson and B. Sivik
Concentration polarization and fouling 35(1980)59

B. Hallström, B. Sivik and G. Trägårdh
The Swedish Membrane Technology Foundation 42(1982)339

W. Zhang, M. Wahlgren and B. Sivik
Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles 72(1989)263

B. Sivik, M. Wahlgren and Y. Miezis
A rheological screening method for membrane modifying polymers 77(1990)181

Six L.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Sizmann R.

T. Baumgartner, D. Jung and R. Sizmann
Open multiple effect desalination with low temperature process heat 81(1991)299

Skehan S. T.

A. Muniz and S.T. Skehan
Disposal of concentrate from brackish water desalting plants by use of deep injection wells 78(1990)41

Slater C. S.

C.S. Slater, R.C. Ahlert and C.G. Uchrin
Applications of reverse osmosis to complex industrial wastewater treatment 48(1983)171

C.S. Slater, J.M. Zielinski, R.G. Wendel and C.G. Uchrin
Modeling of a small scale reverse osmosis systems 52(1985)267

C.S. Slater and H.C. Hollein
Educational initiatives in teaching membrane technology 90(1993)291

Sleigh J. H.

W.T. Andrews, J.H. Sleigh and R.A. Bergman
The Malta seawater reverse osmosis facility 46(1983)111

Slesarenko V. N.

V. Slesarenko
Hydrodynamics and heat transfer during seawater boiling in thin-film desalination plants 21(1977)275

V. Slesarenko
Investigation of heat exchange during sea water boiling in a horizontal thin film desalination plant 29(1979)311

V. Slesarenko and V. Gydarov
Study of thermo-physical characteristics of thin film desalination plants 30(1979)375

V. Slesarenko
Hydrodynamics and heat exchange during film evaporation of sea water in a vapour water upflow 33(1980)251

V. Slesarenko and A. Shtim
Comparative analysis of the efficiency of thermal desalination plants 37(1981)269

V.N. Slesarenko
Thermal desalination of sea water in thin film plants 45(1983)295

V.N. Slesarenko and V.M. Stchetinin
Investigation of performance characteristics in jet-sprayed desalination plants 56(1985)431

V.N. Slesarenko and A.S. Shtim
Exergy analysis of multi-stage desalination plants 61(1987)1

V. Slesarenko
Thin film desalination plants and their role in water supply 65(1987)63

V. Slesarenko and A. Shtim
Determination of seawater enthalpy and entropy during the calculation of thermal desalination plants 71(1989)203

V. Slesarenko
Characteristic features of desalination plants with thin film heat exchangers 74(1989)305

V. Slesarenko
Sea water desalination in thin film plants 81(1991)407

V. Slesarenko
Characteristics of thin film desalination plants 94(1994)321

V. Slesarenko
Seawater desalination in thin film plants 96(1994)173

V. Slesarenko
Condition particularities of a jet-impact spraying desalination plant 105(1996)185

V.N. Slesarenko and V.V. Slesarenko
Peculiarities of boiling seawater in desalination plants 108(1996)105

Slesarenko V. V.

V.N. Slesarenko and V.V. Slesarenko
Peculiarities of boiling seawater in desalination plants 108(1996)105

Sleytr U. B.

S. Küpcü, M. Sára and U.B. Sleytr
Influence of covalent attachment of low molecular weight substances on the rejection and adsorption properties of crystalline proteinaceous ultrafiltration membranes 90(1993)65

Sliepcevich C.M.

D.W. Johnson, J.L. Lott and C.M. Sliepcevich
The exchange crystallization freeze desalination process 18(1976)231

Sliger H. B.

H.B. Sliger and R. Quinn
Application of membrane processes 19(1976)573

H. Sliger and R. Quinn
Treatment of sewage effluent by reverse osmosis for boiler feed makeup at the Wyodak Wyoming Station of the Black Hills Power and Light 23(1977)37

Sluys J.T.M.

J.T.M. Sluys, D. Verdoes and J.H. Hanemaaijer
Water treatment in a Membrane-Assisted Crystallizer (MAC) 104(1996)135

Smagin V. N.

V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
Optimization of electrodialysis process at elevated temperatures 46(1983)253

V.N. Smagin, V.A. Chukhin and V.A. Kharchuck
Technological account of electrodialysis apparatus for concentration 46(1983)283

Smart G. M.

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
25 years experience in the development and application of scale inhibitors 31(1979)243

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
The threshold scale inhibition phenomenon 31(1979)257

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
Factors affecting the brine scaling potential in MSF plants 38(1981)175

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
A model for the fouling of MSF plants based on data from operating units 47(1983)37

Smirnov J. K.

V.L. Podbereznyi, U.K. Smirnov, V.B. Chernozubov, U.V. Putilin and R.N. Musihin
Horizontal-tube film desalination plants. Research data of principal processes and of production prototypes design 45(1983)15

V.I. Podbereznyi, J.K. Smirnov and J.V. Putilin
Some aspects of the development and operation of the desalination installations with horizontal-tube thin-film evaporators 73(1989)447

Smirnova N. M.

N.M. Smirnova, B.N. Laskorin, J.S. Mishukova and A.V. Borisov
The application of electrodialysis with ion exchange membranes for treatment of sodium sulfate solutions 46(1983)197

Smit J.A.M.

W.C.M. Henkens and J.A.M. Smit
Salt rejection and flux in reverse osmosis with compactible membranes 28(1979)65

J.A.M. Smit
Reverse osmosis with a cellulose acetate membrane in the reverse orientation 36(1981)291

M.W. Vonk and J.A.M. Smit
Thermodynamics of ternary systems in reverse osmosis 48(1983)105

J. van Daalen and J.A.M. Smit
The influence of membrane heterogeneity on the solute retention 52(1985)235

Smith A. L.

A.L. Smith, D.P. Logan, H.E. Nehus and M.L. Delitsky
Elimination of mineral acid dosing to control water formed scale in brackish water RO systems 54(1985)277

Smith B. E.

B.E. Smith
The use of solar ponds in the disposal of desalting concentrate 78(1990)59

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

B.E. Smith
Desalting and ground water management in the San Joaquin Valley, California 87(1992)151

Smith B. R.

B.R. Smith
Scale prevention by addition of polyelectrolytes 3(1967)263

F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor
Scale control by polyacrylates: The effects of molecular weight and of traces of metals 8(1970)167

B.R. Smith and F. Sweett
Scale control by polyacrylates: Relation to crystallization inhibition 9(1971)277

B.R. Smith and E.A. Swinton
Desalination costs in Australia: A survey of operating plants 70(1988)3

Smith D. A.

L.H. Shaffer, R.A. Knight and D.A. Smith
Photometric procedure for a chelometric analysis for calcium in the presence of a large excess of magnesium 2(1967)125

Smith G.

J.C. Lozier, G. Smith, J.W. Chapman and D.E. Gattis
Selection, design and procurement of a demineralization system for a surface water treatment plant 88(1992)3

Smith I.

R.M. Ahlgren and I. Smith
Review of large desalination plant experience in the Americas 73(1989)247

Smith J. R.

R.R. Doelle and J.R. Smith
Utilization of organo phosphonate chemicals in reverse osmosis scale growth 32(1980)113

Smith M.J.S.

W.H. Denton, M.J.S. Smith, J.T. Klaschka, R. Forgan, H.R. Diffey, C.H. Rumary and R.W. Dawson
Experimental studies on washing and melting ice crystals in the immiscible refrigerant freezing process 14(1974)263

Smith N. C.

N.C. Smith
Developing and financing new water facilities: Alternatives for desalination and reclamation plants 87(1992)85

Smith S.

M.A. Finan, A. Harris and S. Smith
The field assessment of a high temperature scale control additive and its effect on plant corrosion 20(1977)193

M.A. Finan, S. Smith, C.K. Evans and J.W.H. Muir
BELGARD®EV - 15 years' experience in scale control 73(1989)341

Smith, Jr. W. H.

R.R. Davison, W.B. Harris and W.H. Smith, Jr.
Solvent extraction desalination pilot plant 3(1967)17

Smolders C. A.

C.A. Smolders, M.H.V. Mulder and P.M. van der Velden
A survey of structure characterization methods for ultrafiltration and reverse osmosis membranes 19(1976)481

L. Broens, D.M. Koenhen and C.A. Smolders
On the mechanism of formation of asymmetric ultra- and hyperfiltration membranes 22(1977)205

M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay
Use of fluidised beds as turbulence promotors in tubular membrane systems 22(1977)465

L. Broens, F.W. Altena, C.A. Smolders and D.M. Koenhen
Asymmetric membrane structures as a result of phase separation phenomena 32(1980)33

J.C. Schippers, J.H. Hanemaayer, C.A. Smolders and A. Kostense
Predicting flux decline of reverse osmosis membranes 38(1981)339

H. Bokhorst, F.W. Altena and C.A. Smolders
Formation of asymmetric cellulose acetate membranes 38(1981)349

D.A. Noordegraaf, C.A. Smolders, R. De Boer and D.J. Romijn
Preparation and properties of a composite charged membrane 41(1982)249

K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders
Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends 61(1987)211

G.B. Van Den Berg and C.A. Smolders
Flux decline in ultrafiltration processes 77(1990)101

A.M. Neplenbroek, D. Bargeman and C.A. Smolders
The stability of supported liquid membranes 79(1990)303

Smolders K.

K. Smolders and A.C.M. Franken
Terminology for membrane distillation 72(1989)249

Snijders G. J.

A.J. Naaktgeboren, G.J. Snijders and J. Gons
Characterization of a new reverse osmosis composite membrane for industrial application 68(1988)223

Snow M.J.H.

M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner
New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration 105(1996)57

Sobolev E. A.

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Soda M.

Y. Fujioka, M. Soda, M. Zama and I. Shimizu
Prevention of the scale trouble of multi-effect stacked desalination plant 73(1989)371

Sodha M. S.

M.S. Sodha, A. Kumar and G.N. Tiwari
Utilization of waste hot water for distillation 37(1981)325

Soejima Y.

M. Al-Sofi, R.D. Peterson, D.L. Moen, Y. Soejima and H. Sawada
Thermal performance of 10 x 5.2 MIGD MSF plants, Al Jobail Phase II 55(1985)357

Soeltner B. R.

H.E. Hoemig and B.R. Soeltner
Reliability in estimating investment costs for large MSF-plants 30(1979)515

Sohm J. C.

L.J. Mas, P.M. Pierrard, P.A. Prax and J.C. Sohm
Behaviour of an electrodialysis unit cell 7(1970)285

Sohma N.

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Solan A.

Y. Winograd and A. Solan
Concentration build-up in reverse osmosis in turbulent flow 7(1969)97

Y. Winograd and A. Solan
Optimal perforation spacing in reverse osmosis support tubes 8(1970)237

A. Solan, Y. Winograd and U. Katz
An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh 9(1971)89

Y. Winograd, A. Solan, and M. Toren
Mass transfer in narrow channels in the presence of turbulence promoters 13(1973)171-186, Err. 13(1973)395

Y. Winograd, M. Toren and A. Solan
Reverse osmosis in shell and tubes 14(1974)173

Soleman M. A. A.

M.A.A. Soleman, J. de Graauw and W. van Putten
Large seawater reverse osmosis plant: Design considerations 46(1983)163

Soliman M. A.

I.S. Al-Mutaz and M.A. Soliman
Simulation of MSF desalination plants 74(1989)317

A.E.S. Al-Zahrani, M.A. Soliman and I.S. Al-Mutaz
An approximate analytical solution for the performance of reverse osmosis plants 75(1989)15

I.S. Al-Mutaz, M.A. Soliman and A.M. Daghthem
Optimum design for a hybrid desalting plant 76(1989)177

I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani
Parametric study on the performance of hollow fibers modules 83(1991)373

I.S. Al-Mutaz and M.A. Soliman
Optimum operation of steam-power cycle in dual MSF desalination plants 84(1991)103

I.S. Al-Mutaz, M.A. Soliman and A.E.S. Al-Zahrani
Modeling and simulation of hollow fine fiber modules with radial dispersion - A parametric sensitivity study 110(1997)239

Solomon B. A.

T.D. Nguyen and B.A. Solomon
New one-step process for preparation of microporous composite polysulfone/polyurethane hollow-fiber membranes 90(1993)3

Solomon D. H.

D.H. Solomon and P.F. Rolfe
Polymers that inhibit the deposition of calcium sulphate 1(1966)260

Solomon R. L.

J. Masarczyk, C.-H. Hansson, R.L. Solomon and B. Hallmans
Desalination plant at KWK Debiensko, Poland: Advanced mine drainage water treatment engineering for zero discharge 75(1989)259

Solt G. S.

G.S. Solt
Further progress in electrodialysis 2(1967)21

P. Feron and G.S. Solt
The influence of separators on hydrodynamics and mass transfer in narrow cells: Flow visualisation 84(1991)137

G. Solt
Early days in electrodialysis 100(1995)15

T. Wen, G.S. Solt and Y.F. Sun
Spirally wound electrodialysis (SpED) modules 101(1995)79

T. Wen, G.S. Solt and Y.F. Sun
Modelling the cross flow spirally wound electrodialysis (SpED) process 103(1995)165

M. Law, T. Wen and G.S. Solt
Thickness and concentration profile of the boundary layer in electrodialysis 109(1997)95

Soltanieh M.

M. Soltanieh and W.N. Gill
An experimental study of the complete-mixing model for radial flow hollow fiber reverse osmosis systems 49(1984)57

Somer T. G.

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Pilot plant study of desalination by direct contact heat transfer 13(1973)221

T.G. Somer, M. Bora, Ö. Kaymakçalan, S. Özmen and Y. Arikan
Heat transfer to an immiscible liquid mixture and between liquids in direct contact 13(1973)231

T.G. Somer and C. Özgen
Hydrodynamics of condensate films on fluted tube surfaces. Part I 34(1980)233

T.G. Somer and C. Özgen
Effect of surface configuration on heat transfer by the condensation of steam over fluted surfaces. Part II 34(1980)249

A. Büyükyilmaz, C. Özgen and T.G. Somer
Effect of inclination on the heat transfer performance of fluted tubes with and without drainage discs 65(1987)3

Somiya I.

Y. Ono, I. Somiya, T. Kawaguchi and S. Mohri
Evaluation of toxic substances in effluents from a wastewater treatment plant 106(1996)255

Sommariva C.

C. Sommariva, R. Borsani and A. Tasca
Distillate purity from MSF: The theoretical design and a real case behaviour 81(1991)309

A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation 92(1993)21

C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl
Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material 97(1994)53

C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan
Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B 108(1996)37

C. Sommariva, A. Converti and M. Del Borghi
Increase in phosphate removal from wastewater by alternating aerobic and anaerobic conditions 108(1996)255

Somuah S.

H. Al-Zahrani, S. Somuah and N.M.A. Eid
Localized corrosion behavior in stainless structural steels weldments under desalination plant condition 84(1991)349

Song Dezheng

Xue Deming, Song Dezheng and Liu Xiaoying
The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis 62(1987)251

Song XuTong

Song Xu-Tong and Chen Guang
The calculation of limiting current density of electrodialysis under the influence of water quality and temperature 46(1983)263

Sonin A. A.

A.A. Sonin and R.F. Probstein
A hydrodynamic theory of desalination by electrodialysis 5(1968)293-329, Err. 6(1969)270

G. Grossman and A.A. Sonin
Experimental study of the effects of hydrodynamics and membrane fouling in electrodialysis 10(1972)157

R.F. Probstein, A.A. Sonin and E. Gur-Arie
A turbulent flow theory of electrodialysis 11(1972)165

G. Grossman and A.A. Sonin
Membrane fouling in electrodialysis: A model and experiments 12(1973)107

R.F. Probstein, A.A. Sonin and D. Yung
Brackish water salt rejection by porous hyperfiltration membranes 13(1973)303

H. Gold, A. Todisco, A.A. Sonin and R.F. Probstein
The Avco continuous moving bed ion-exchange process and large scale desalting 17(1975)97

Sonnenschein H.

A. Ehret and H. Sonnenschein
Combination of a high-temperature reactor with a closed-cycle gas-turbine and desalination plant 5 suppl.(1969)407

Sonoda T.

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

Soo Kim Hyung

S. Takizawa, K. Fujita and K.H. Soo
Membrane fouling decrease by microfiltration with ozone scrubbing 106(1996)423

Soo-Hoo Randall

R. Soo-Hoo, L. Awerbuch, S. May, M. Mattson and S. Kremen
Parametric study on seawater reverse osmosis desalting plants 46(1983)3

L. Awerbuch, V. van der Mast and R. Soo-Hoo
Hybrid desalting systems — A new alternative 64(1987)51

L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast
Hybrid desalting systems 76(1989)189

Soontarapa K.

S.I. Semenova, H. Ohya and K. Soontarapa
Hydrophilic membranes for pervaporation: An analytical review 110(1997)251

Sørensen T. S.

T.S. Sørensen, J.B. Jensen and B. Malmgren-Hansen
Electromotive force and impedance studies of cellulose acetate membranes: Evidence for two binding sites for divalent cations and for an alveolar structure of the skin layer 80(1991)293

Soriano E.

J. Lora and E. Soriano
Composite membranes of aromatic polyamide for desalination: Membrane preparation and characterization 64(1987)375

Sorour M. H.

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Squeezing desalted water costs by proper choice of the desalting technology and water management 44(1983)189

A.M. Abulnour, M.H. Sorour, F.A. Hammouda and A.M. Abdel Dayem
Non-conventional water sources for small remote communities in developing countries 47(1983)285

A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik
Parametric evaluation of flux decline during ultrafiltration of protein solutions 68(1988)35

M.H. Sorour, A.G. Abulnour and H.A. Talaat
Desalination of agricultural drainage water 86(1992)63

Sourirajan S.

H. Ohya and S. Sourirajan
Some parametric studies in water desalination by reverse osmosis using porous cellulose acetate membranes 6(1969)153

B. Kunst and S. Sourirajan
Performance of some improved porous cellulose acetate membranes for low pressure reverse osmosis desalination 8(1970)139

H. Ohya, S. Kasahara and S. Sourirajan
Application of system analysis in two-stage reverse osmosis process design for water desalination 16(1975)375

W.L. Thayer, L. Pageau and S. Sourirajan
Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes 21(1977)209

O. Kutowy, W.L. Thayer and S. Sourirajan
High flux cellulose acetate ultrafiltration membranes 26(1978)195

T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan
Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications 32(1980)181

T. Matsuura, Y. Taketani and S. Sourirajan
A physicochemical approach for the choice of polymeric membrane materials for water desalination by reverse osmosis 38(1981)319

Y. Taketani, T. Matsuura and S. Sourirajan
Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface 46(1983)455

Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and T. Matsuura
Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes 85(1991)1

Y. Wang, W.Y. Lau and S. Sourirajan
Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes 95(1994)155

K. Lang, S. Sourirajan, T. Matsuura and G. Chowdhury
A study on the preparation of polyvinyl alcohol thin-film composite membranes and reverse osmosis testing 104(1996)185

Sousa H. J. T.

H.J.T. Sousa and V. Janisch
Solar desalination based on the multi-cycle concept 67(1987)75

Spacht J. M.

L.A. Seach, W.T. VanWagoner and J.M. Spacht
Future reclaimed water use in the Northeast San Fernando Valley 88(1992)225

Spadoni M.

C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita
Treatment of waste water from silk degumming processes for protein recovery and water reuse 105(1996)1

C. Fabiani, F. Ruscio, M. Spadoni and M. Pizzichini
Chromium(III) salts recovery process from tannery wastewaters 108(1996)183

Spangenberg C.

P. Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg
A pilot study on groundwater natural organics removal by low-pressure membranes 102(1995)47

Spanhaak G.

G. Spanhaak, M.A. Finan and A. Harris
The application of a high temperature scale control additive to a European MSF plant 23(1977)455

G. Spanhaak
A comparison of the operating characteristics of conventional multi-stage flash evaporation and multi-stage flash/fluidized bed evaporation 31(1979)511

Spence C.M.

J.D. Isdale, C.M. Spence and J.S. Tudhope
Physical properties of sea water solutions: Viscosity 10(1972)319

Spencer H.G.

H.G. Spencer
Hyperfiltration of nonelectrolytes: Dependence of rejection on solubility parameters 28(1979)117

C.A. Brandon, D.A. Jernigan, J.L. Gaddis and H.G. Spencer
Closed cycle textile dyeing: full scale renovation of hot wash water by hyperfiltration 39(1981)301

R.J. Luppino and H.G. Spencer
Effects of surfactants on the hyperfiltration performance of dynamic membranes 41(1982)33

H.G. Spencer, D.K. Todd and D.B. McClellan
Properties of dynamically-formed polyblend membranes 49(1984)193

H.G. Spencer
Electrolyte exclusion model for hyperfiltration of electrolyte solutions by charged gel membranes 52(1984)1

H.G. Spencer, D.B. McClellan, N.D. Ellis, D.A. Jernigan and D.N. Mahony
Concentration and recovery dependence of hyperfiltration system rejection of electrolytes by ion exchange membranes 61(1987)17

K.S. Menon and H.G. Spencer
Ion passages in the hyperfiltration of mixed co-ion electrolyte solutions by a membrane containing fixed charges 69(1988)115

S. Yarlagadda and H.G. Spencer
Hyperfiltration properties of a zirconium (IV) hydrous oxide-polyacrylate membrane in electrolyte-alcohol-water solutions 79(1990)37

K.S. Menon and H.G. Spencer
Modeling multiion transport in hyperfiltration membranes with fixed charges 80(1991)31

L. Zhang and H.G. Spencer
Selective separation of proteins by microfiltration with formed-in-place membranes 90(1993)137

D. Szaniawska and H.G. Spencer
Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place zirconium (IV) hydrous oxide-polyacrylate membranes in lactose-water solutions 95(1994)121

D. Szaniawska and H.G. Spencer
Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place Zr(IV) hydrous oxide-PAA membranes. II. NaCl-water solutions 101(1995)31

D. Szaniawska and H.G. Spencer
Solute-solute separations of binary-solute solutions using formed-in-place membranes 105(1996)21

Spencer J.

J.M. Dickson, J. Spencer and M.L. Costa
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part I: Theoretical model development 89(1992)63

J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model 99(1994)1

Spencer T.

C.F. Schutte, T. Spencer, J.D. Aspden and D. Hanekom
Desalination and reuse of power plant effluents: From pilot plant to full scale application 67(1987)255

Spera D.

G. Di Giacomo, G. Del Re and D. Spera
Milk whey treatment with recovery of valuable products 108(1996)273

Spiegler K. S.

K.S. Spiegler and O. Kedem
Thermodynamics of hyperfiltration (reverse osmosis): criteria for efficient membranes 1(1966)311

K.S. Spiegler
Membrane symposium, Paris, February 1-3, 1967 2(1967)130

K.S. Spiegler
Polarization at ion exchange membrane solution interfaces 9(1971)367

C. Forgacs, N. Ishibashi, J. Leibovitz, J. Sinkovic and K.S. Spiegler
Polarization at ion-exchange membranes in electrodialysis 10(1972)181

K.S. Spiegler
On the measurement of streaming potentials with silver-silver chloride electrodes 15(1974)135, Err. 16(1975)260

K.S. Spiegler
Thermodynamic analysis 44(1983)3

Spiewak I.

E.N. Sieder and I. Spiewak
Development of technology applicable to 50-MGD and larger sea-water distillation plants 5 suppl.(1969)829

Spinosa L.

G. Boari, L. Liberti, M. Santori and L. Spinosa
Advanced evaporation plants with sulfate removal by ion exchange 19(1976)283

M. Beccari, A.C. di Pinto and L. Spinosa
Liquid film distributors for vertical tube evaporation desalination plants 29(1979)295

M. Beccari, A.C. Di Pinto, A. Rozzi, M. Santori and L. Spinosa
Pilot and full-scale research on the vapour compression desalination process 37(1981)257

Springer J.

S. Antoniou, J. Springer and A. Grohmann
Dynamic polyacrylamide membranes in the reverse osmosis 32(1980)47

Springer W. S.

J.E. Anderson, W.S. Springer and G.G. Strosberg
Application of reverse osmosis to automotive electrocoat paint wastewater recycling 36(1981)179

Spurr D.

D.J. Spurr
Reverse osmosis in United Kingdom. Municipal applications 82(1991)385

Squire D.

D. Squire, J. Murrer, P. Holden and C. Fitzpatrick
Disposal of reverse osmosis membrane concentrate 108(1996)143

Squires R. C.

R.C. Squires, J.A.C. Cowan and F.C. Wood
The desalination of coalmine drainage water by reverse osmosis 47(1983)343

O.O. Hart and R.C. Squires
The role of membrane technology in industrial water and wastewater management 56(1985)69

Sridhar S.

S. Sridhar
Desalination and recovery of catalysts by electrodialysis 79(1990)233

Srinivasan S.

S. Srinivasan and C. Tien
Reverse osmosis desalination in tubular membrane duct 3(1967)5

S. Srinivasan and C.Tien
Reverse osmosis in multicomponent systems 5(1968)139

S. Srinivasan and C. Tien
A finite difference solution for reverse osmosis in turbulent flow 7(1969)51

S. Srinivasan and C. Tien
A simplified method for the prediction of concentration polarization in reverse osmosis operation for multicomponent systems 7(1970)133

S. Srinivasan and C. Tien
Reverse osmosis in a curved tubular membrane duct 9(1971)127-139, Err. 12(1973)277

S. Srinivasan and C. Tien
Natural convection effect in reverse osmosis 10(1972)273

C. Tien and S. Srinivasan
Correction to "Reverse osmosis in a curved tubular membrane duct" 12(1973)277-279, Err. 9(1971)127

S. Srinivasan and C. Tien
Effect of imperfect salt rejection on concentration polarization in reverse osmosis systems 13(1973)287

Srivastava A. S.

B. Chakravorty and A.S. Srivastava
Application of membrane technologies for recovery of water from pulp and paper mill effluents 67(1987)363

Srivastava R.C.

R.C. Srivastava and S. Yadav
Formation of multilayers of liquid membrane at the cellulose acetate membrane/water interface 28(1979)291

Srouji M.M.

M.A.K. Al-Sofi and M.M. Srouji
Fuel allocation in dual-purpose plants 100(1995)65

Staab K. F.

K. Krauth and K.F. Staab
Substitution of the final clarifier by membrane filtration within the activated sludge process with increased pressure. Initial findings 68(1988)179

Stahel E. P.

D.R. van der Vaart and E.P. Stahel
An investigation of the modified fouling index as a test for plugging potential of pretreated seawater 68(1988)45

Stamets L.E.

LL.E. Stamets, L.T. Fan and C.L. Hwang
Systems analysis of dual-purpose nuclear power and desalting plants. Part II. Sensitivity analysis 11(1972)239

Stamm G. G.

G.G. Stamm and M.B. Bessler
Future role of desalting for water quality improvement — Colorado River Basin, USA 20(1977)1

Standiford F.C.

F.C. Standiford
The falling film MSF evaporator 19(1976)35

F.C. Standiford
Control in multiple effect evaporator plants 59(1986)263

F.C. Standiford
Control in vapor compression evaporators 59(1986)293

R.P. Hammond, D.M. Eissenberg, D.K. Emmermann, J.E. Jones, Jr., H.H. Sephton, F.C. Standiford, R.F. Scott, W.J. Rider and D.W. Dean
Seawater desalination plant for Southern California 99(1994)459

Stange J. R.

J.R. Stange and W.S. Hsieh
Considerations in the site selection and equipment specification for the Yanbu 380 m3/ hr desalination plant 31(1979)69

W.S. Hsieh and J.R. Stange
Waterhammer studies of power/desal plants cooling water system with common discharge conduit 31(1979)183

Stannett V.

P. Bo and V. Stannett
On the salt rejection of non-ionic polymeric membranes 18(1976)113

Staples D.

D.C. Hicks, W.A. Fearn, C.M. Pleass and D. Staples
Development, testing and the economics of a composite/plastic seawater reverse osmosis pump 73(1989)95

Staples M. A.

M.A. Staples
How to promote water reclamation and reuse through the California water rights system 88(1992)189

Starmer R.

R. Starmer, F.C. Thornley and J.A. Modet
Problems likely to be encountered in the design of a large flash distillation plant 3(1967)343

R. Starmer and F. Lowes
Nuclear single-purpose multi-stage-flash with vapour recompression 5 suppl.(1969)569

Statton J. A.

D.C. Nerell, J.A. Statton and G. Borsteins
Baja California desalination project. Feasibility study report: Large scale dual purpose hybrid desalination plant 88(1992)123

Staude E.

E. Staude and W. Assenmacher
A contribution to fouling in hyperfiltration induced by chemical reaction 49(1984)215

E. Staude, W. Assenmacher and H. Hoffmann
Hyperfiltration of surfactants containing solutions from the plating industry 49(1984)321

W. Thamm and E. Staude
Reverse osmosis of wash waters from simultaneous SO2/NOx wet removal technique of flue gas 61(1987)27

I. Rubinstein, E. Staude and O. Kedem
Role of the membrane surface in concentration polarization at ion-exchange membrane 69(1988)101

A. Yaroshchuk and E. Staude
Charged membranes for low pressure reverse osmosis properties and applications 86(1992)115

D. Düputell, E. Staude and D. Wyszynski
Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone 95(1994)75

Stchetinin V. M.

V.N. Slesarenko and V.M. Stchetinin
Investigation of performance characteristics in jet-sprayed desalination plants 56(1985)431

Stefan R.

S. Peter, N. Hese and R. Stefan
Phenol-selective highly resistant RO membranes made from PVA for the purification of toxic industrial wastes 19(1976)161

Stefanovic M.

M. Stefanovic and N. Afgan
Liquid superheat for vapour formation with and without presence of solid surface 10(1972)17

Steil K.-H.

K.-H. Steil
A new distillation procedure for seawater desalination based on the regeneration principle (in German) 45(1983)303

Steinberg S.

S. Steinberg and D. Hasson
Analysis of the effect of brine retention time on the scaling potential 31(1979)267

D. Hasson and S. Steinberg
Continuous flow precipitation 47(1983)129

Steinbruchel A.B.

A.B. Steinbruchel
Current and projected technology of flash-type sea-water desalination plants 5 suppl.(1969)525

A.B. Steinbruchel
Review of desalination plant operating experiences 20(1977)43

Stengaard F. F.

F.F. Stengaard
Characteristics and performance of new types of ultrafiltration membranes with chemically modified surfaces 70(1988)207

Stenstrom M. K.

R. Cheng, J. Glater, J.B. Neethling and M.K. Stenstrom
The effects of small halocarbons on RO membrane performance 85(1991)33

Stepakoff G.L.

G.L. Stepakoff and A.P. Modica
The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part I. Solubility and hydrolysis rates of Freon 114 (CClF2CClF2) 12(1973)85

G.L. Stepakoff and A.P. Modica
The hydrolysis of halocarbon refrigerants in freeze desalination processes. Part II. Theoretical prediction of hydrolysis rates and comparison with experimental data 12(1973)239

G.L. Stepakoff, D. Siegelman, R. Johnson and W. Gibson
Development of a eutectic freezing process for brine disposal 15(1974)25

Stephens G.K.

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

Stephenson D.

D. Stephenson
Computer analysis justifies desalination 58(1986)155

Sterman L. S.

L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Viceblatt and V.M. Lavygin
The choice of basic parameters of a multi-stage flash plant for sea water desalination 4(1968)94

L.S. Sterman, N.A. Mozharov and V.V. Gubenko
Selection of parameters of an atomic energy plant with high productivity distillation of sea water 5(1968)95

L.S. Sterman, V.M. Lavigin and V.D. Rojnatovsky
The quality of the distillate of desalination plants with a washing device 45(1983)253

Stern S.A.

S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis 11(1972)31

A.J. Barduhn, G.M. Roux, H.A. Richard, G.B. Giuliano and S.A. Stern
The rate of formation of the hydrates of F-31 (CH2CIF) and F-142b (CH3CCIF2) in a stirred tank reactor 18(1976)59

Sterner R.

S. Muro, R. Sterner and J. Ugarte
Investigation on sea water desalination plants in Spain 28(1979)109

F. Cantera, J. Guzman and R. Sterner
Activities in Spain 39(1981)385

Stevens D.

D. Stevens and S. Loeb
Reverse osmosis desalination costs derived from the Coalinga pilot plant operation 2(1967)56

Stewart J. M.

D.W. Clelland and J.M. Stewart
Optimisation and design of large scale multi stage flash distillation plants 1(1966)61

J.M. Stewart and W.R. Querns
Progress on the design of multiflash evaporators 3(1967)139

J. Stewart, R. Bom and M.A. Finan
The use of acid and additive. Practical experiences in a multistage flash plant 31(1979)299

Steymans C.

C. Steymans and H. Fischer
Measurement of the hydrodynamic permeability of membranes with fine pores 6(1969)203

Stiel L. I.

S. Itahara and L.I. Stiel
The optimal design of multi-stage flash evaporators by dynamic programming 4(1968)248

Stocker T. F.

S.D.N. Freeman and T.F. Stocker
Comparison of two thin-film composite membranes: Low pressure FT-30 to very low pressure NF40HF 62(1987)183

J. Cadotte, R. Forester, M. Kim, R. Petersen and T. Stocker
Nanofiltration membranes broaden the use of membrane separation technology 70(1988)77

Stokes G. D.

G.D. Stokes and W.A. Dunson
Passage of water and electrolytes through natural and artificial keratin membranes 42(1982)321

Stone F. E.

F.E. Stone and A.N. Rogers
A projected world market for seawater desalination equipment 55(1985)529

Stone R.

R. Stone
Water efficiency program for Perth 106(1996)377

Storrs P. N.

B. Sheikh, P.N. Storrs, T.J. Jones, J.S. Hsiao and W.R. Kirkpatrick
Health and safety aspects of irrigation of raw eaten food crops with reused water 39(1981)491

Strathmann H.

H. Strathmann and B. Keilin
Control of concentration polarization in reverse osmosis desalination of water 6(1969)179

H. Strathmann, K. Kock, P. Amar and R.W. Baker
The formation mechanism of asymmetric membranes 16(1975)179

H. Strathmann and A.S. Michaels
Polymer-water interaction and its relation to reverse osmosis desalination efficiency 21(1977)195

H. Strathmann and K. Kock
The formation mechanism of phase inversion membranes 21(1977)241

E. Korngold, K. Kock and H. Strathmann
Electrodialysis in advanced waste water treatment 24(1978)129

H. Strathmann
Asymmetric polyimide membranes for filtration of non-aqueous solutions 26(1978)85

E. Bayer and H. Strathmann
Second Tübinger Symposium on synthetic membranes in science and industry 34(1980)1

P. Zschocke and H. Strathmann
Solvent resistant membranes from poly(p -phenylene-terephthalamide) 34(1980)69

H. Strathmann
Development of new membranes 35(1980)39

H. Schmoldt, H. Strathmann and J. Kaschemekat
Desalination of sea water by an electrodialysis-reverse osmosis hybrid system 38(1981)567

H.U. Müller and H. Strathmann
Electrodialytic removal of carbonates from seawater 47(1983)201

H. Strathmann
4th Tübingen Symposium on Synthetic Membranes in Science and Industry 51(1984)1

B. Bauer, F.J. Gerner and H. Strathmann
Development of bipolar membranes 68(1988)279

H. Strathmann, C.-M. Bell and J. Kerres
Gas separation and pervaporation: Membrane and module development 77(1990)259

B. Bauer, H. Strathmann and F. Effenberger
Anion-exchange membranes with improved alkaline stability 79(1990)125

W. Gudernatsch, C. Krumbholz and H. Strathmann
Development of an anion-exchange membrane with increased permeability for organic acids of high molecular weight 79(1990)249

K. Kimmerlie and H. Strathmann
Analysis of the structure-determining process of phase inversion membranes 79(1990)283

H. Strathmann, H.-J. Rapp, B. Bauer and C.M. Bell
Theoretical and practical aspects of preparing bipolar membranes 90(1993)303

T. Aritomi, T. van den Boomgaard and H. Strathmann
Current-voltage curve of a bipolar membrane at high current density 104(1996)13

Striez C. N.

T.A. Tweddle, C. Striez, C.M. Tam and J.D. Hazlett
Polysulfone membranes. I. Performance comparison of commercially available ultrafiltration membranes 86(1992)27

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson
Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent 101(1995)155

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy
Membrane performance with plug screw feeder pressate: operating conditions and membrane properties 105(1996)229

Strobl Ch.

S. Bauer, K. Heckmann, L. Six, C. Strobl, D. Blöcher, B. Henkel, T. Garbe and K. Ring
Hyperfiltration through crosslinked monolayers II 46(1983)369

Stroh N.

R.M. McDonogh, H. Bauser, N. Stroh and H. Chmiel
Concentration polarisation and adsorption effects in cross-flow ultrafiltration of proteins 79(1990)217

Strosberg G. G.

J.E. Anderson, W.S. Springer and G.G. Strosberg
Application of reverse osmosis to automotive electrocoat paint wastewater recycling 36(1981)179

Stuart J.

T. Bryant, J. Stuart, I. Fergus and R. Lesan
The use of reverse osmosis as a 35,600 m3/day concentrator in the waste water management scheme at 4640 MW Bayswater/Liddell power station complex - Australia 67(1987)327

J. Stuart, T. Bryant, I. Fergus and E. Gabbrielli
Review of initial three years operation of waste water management scheme at 4640 MW Bayswater/Liddell Power Station Complex, Australia 75(1989)379

Stuart W.A.

W.A. Stuart and A.R. Lister
The determination of carbonate-bicarbonate ratios and total alkalinity in treated sea water 8(1970)69

Sturla P.

B. Vassiliou and P. Sturla
A new ion exchange approach to the treatment of brackish waters 5(1968)40

Styczynski T. E.

B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf
The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog 87(1992)97

Su Yinfong

Chen-Yen Cheng, Yin-Fong Su and D.N. Hopkins
Desalination by the improved vacuum freezing high pressure ice melting process 42(1982)141

Suárez J.

J. Suárez and M.H.A. El-Saie
Las Palmas 20,000-m3/d flash-distillation dual-purpose water and power plant 5 suppl.(1969)239

Suda S.

H. Tsuge, S. Suda and T. Matsumura
Pretreatment of seawater RO feed by means of coagulation-filtration 38(1981)425

Sudak R. G.

R.G. Sudak and A.M. Desai
Reverse osmosis for Yuma desalting plant 19(1976)389

R.G. Sudak and M.E. McKee
Low pressure composite membrane 22(1977)235

Sudak R.V.

B.A. Bolto, K.H. Eppinger, P.S.K. Ho, M.B. Jackson, N.H. Pilkington and R.V. Sudak
An ion-exchange process with thermal regeneration. XII. Desalting of sewage effluents 25(1978)45

Suder S.

J. Wisniewski and S. Suder
Water recovery from etching effluents for the purpose of rinsing stainless steel 101(1995)245

Sudjito

P.A. Hogan, Sudjito, A.G. Fane and G.L. Morrison
Desalination by solar heated membrane distillation 81(1991)81

Suemoto S. H.

W.J. Boegli, S.H. Suemoto and K.M. Trompeter
Geothermal desalting at the East Mesa test site 22(1977)77

S.H. Suemoto, L.A. Haugseth and C.D. Moody
Research experiences from operational difficulties - Yuma Desalting Plant, U.S.A. 96(1994)43

L. Herbranson and S.H. Suemoto
Desalination research - Current needs and approaches - A U.S. perspective 96(1994)239

Suetsuna I.

S. Ishizaka, Y. Onaga, T. Kikuchi, T. Sakai and I. Suetsuna
Technical aspects of desalination in Japan - present and future 5 suppl.(1969)63

Sugi J.

J. Sugi and S. Saito
Concentration and demineralization of sea water by the hydrate process 3(1967)27

Sugihara M.

T. Uragami, K. Maekawa and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes 27(1978)9

T. Uragami, M. Fujimoto and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid) 34(1980)311

T. Uragami, Y. Ohsumi and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. 40. Formation conditions of finger-like cavities of cellulose nitrate membranes 37(1981)293

Sugino Y.

T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino
Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis 32(1980)93

Sugita S.

S. Sugita
Formation of alkaline scale in heating brine obtained by the ion-exchange membrane method 17(1975)231

Suizu S.

S. Iso, S. Suizu and A. Maejima
The lethal effect of hypertonic solutions and avoidance of marine organisms in relation to the discharged brine from a desalination plant 97(1994)389

Sulpizio T. E.

T.E. Sulpizio, W.G. Light and J.L. Perlman
Economic and technical factors affecting seawater reverse osmosis process design 74(1989)187

Sultan A.H.

H. Osman, A.H. Sultan, A. Radif and S.A. Aziz
Large pumps in power and desalination plants 93(1993)181

C. Sommariva, R. Borsani, M.I. Butt and A.H. Sultan
Reduction of power requirements for MSF desalination plants: The example of Al Taweelah B 108(1996)37

Sultan H.

A. Al-Radif, R. Borsani and H. Sultan
Selection of materials for Taweelah "B" MSF desalination plant project (6x10-12.7 migd) 97(1994)3

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

Sumberová V.

M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
Characteristic of the critical state of membranes in ED-desalination of milk whey 86(1992)173

Sun Xiuzhen

Xue-Ren Lu, Cong-Jie Gao and Xiu-Zhen Sun
Reinforced and dry polysulfonamide membranes 54(1985)207

Gao Congjie, Lu Xueren and Sun Xiuzhen
Pore size control in the preparation of PAN membranes 62(1987)89

Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie
Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes 62(1987)353

Sun Y.F.

T. Wen, G.S. Solt and Y.F. Sun
Spirally wound electrodialysis (SpED) modules 101(1995)79

T. Wen, G.S. Solt and Y.F. Sun
Modelling the cross flow spirally wound electrodialysis (SpED) process 103(1995)165

Sundaramoorthy S.

C.A. Sastry and S. Sundaramoorthy
Industrial use of fresh water vis-a-vis reclaimed municipal wastewater in Madras, India 106(1996)443

Sundet S. A.

S.A. Sundet, S.D. Arthur, D. Campos, T.J. Eckman and R.G. Brown
Aromatic/cycloaliphatic polyamide membrane 64(1987)259

Suneja S.

S. Suneja, G.N. Tiwari and S.N. Rai
Parametric study of an inverted absorber double-effect solar distillation system 109(1997)177

Sunni A.

M. Aswed and A. Sunni
The future of water supply to Tripoli 30(1979)155

Suponev A D.

Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski
Analysis of the technical and economic data of multi-purpose nuclear plants (in German) 5(1968)201

Suratt W. B.

R.P. Carnahan, L. Bolin and W. Suratt
Biofouing of PVD-1 reverse osmosis elements in the water treatment plant of the City of Dunedin, Florida 102(1995)235

J.N. Cevaal, W.B. Suratt and J.E. Burke
Nitrate removal and water quality improvements with reverse osmosis for Brighton, Colorado 103(1995)101

Surel O.

O. Surel and M.-H. Famelart
Microfiltration of long chain carboxylates: Relationship between rejection and micellization 95(1994)11

Suri R. K.

R.K. Suri, A.M.R. Al-Marafie, A.A. Al-Homoud and G.P. Maheshwari
Cost-effectiveness of solar water production 71(1989)165

Süszer A.

A. Süszer, E. Bandel and M. Flitman
Preparation and laboratory evaluation of cellulose-based ion permselective membranes 7(1969)47

Suwandi M. S.

M.S. Suwandi and M.S. Lefebvre
Performance of fractal membranes in the ultrafiltration of skim natural rubber latex 70(1988)225

M.S. Suwandi and I. Singh
Optimum arrangement of membranes in a multistage ultrafiltration 70(1988)327

M.S. Suwandi
Determination of optimized membrane area from long-term flux decline data 90(1993)379

Suzuki A.

S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama
Production of heavy oil from sewage sludge by direct thermochemical liquefaction 98(1994)127

Suzuki K.

T. Kawahara and K. Suzuki
Utilization of the waste concentrated seawater in the desalination plants 38(1981)499

K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto
Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets 97(1994)147

Suzuki S.

H. Ohya, T. Moriyama, S. Suzuki and S. Ishizaka
Analysis of reverse osmotic characteristics of American-standard type tubular module 16(1975)235

Y. Ogawa and S. Suzuki
On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis 42(1982)57

Suzuki Y.

G.T. Seo, Y. Suzuki and S. Ohgaki
Biological powdered activated carbon (BPAC) microfiltration for wastewater reclamation and reuse 106(1996)39

Svitsov A. A.

G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov
Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis 46(1983)171

Swaminathan T.

K. Gurumoorthy and T. Swaminathan
Use of reverse osmosis in chlor alkali plant 98(1994)303

C.N. Raghupathi and T. Swaminathan
Desalination in India — Experience and future prospects 98(1994)495

Swanback S.

J.A. Townley, S. Swanback and D. Andres
Recharging a potable water supply aquifer with reclaimed wastewater in Cambria, California 88(1992)341

Swart F. E.

L. Awerbuch, A. Maddagiri, F.E. Swart and A.N. Rogers
Coupling of a power plant with a low temperature multi-effect desalination plant 44(1983)177

Swartzendruber L. J.

L.H. Bennett and L.J. Swartzendruber
Some comments on "The corrosion of materials in desalination plants" 4(1968)389-390, Err. 4(1968)391-392

L.J. Swartzendruber and L.H. Bennett
Use of ultrasonics in laboratory development tests of cupro-nickel alloys for desalination 9(1971)387

Sweett F.

F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor
Scale control by polyacrylates: The effects of molecular weight and of traces of metals 8(1970)167

B.R. Smith and F. Sweett
Scale control by polyacrylates: Relation to crystallization inhibition 9(1971)277

Sweilm F.

B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib
Ground water resources in Fayoum area, Egypt 39(1981)295

B. Mabrook, F. Sweilm and R. El-Sheikh Shoheib
Origin of subsurface water in Khartoum province, Sudan 39(1981)297

Swiniarski E. J.

A.E. Allegrezza, Jr., B.S. Parekh, P.L. Parise, E.J. Swiniarski and J.L. White
Chlorine resistant polysulfone reverse osmosis modules 64(1987)285

Swinton E. A.

B.R. Smith and E.A. Swinton
Desalination costs in Australia: A survey of operating plants 70(1988)3

Swist K.

J. Kurbiel, W. Balcerzak, S.M. Rybicki and K. Swist
Selection of the best desalination technology for highly saline drainage water from coal mines in southern Poland 106(1996)415

Szabó Z.

J. Halzl, Z. Szabó, L. Szücs and M. Torma
Application of the HTGR-CCGT system in dual-purpose nuclear power plants 5 suppl.(1969)367

J. Halzl, Gy. Sigmond, Z. Szabó and M. Torma
Application of nuclear reactors to the alumina and aluminum industry 5 suppl.(1969)773

Szaniawska D.

D. Szaniawska and H.G. Spencer
Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place zirconium (IV) hydrous oxide-polyacrylate membranes in lactose-water solutions 95(1994)121

D. Szaniawska and H.G. Spencer
Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place Zr(IV) hydrous oxide-PAA membranes. II. NaCl-water solutions 101(1995)31

D. Szaniawska and H.G. Spencer
Solute-solute separations of binary-solute solutions using formed-in-place membranes 105(1996)21

Szücs L.

J. Halzl, Z. Szabó, L. Szücs and M. Torma
Application of the HTGR-CCGT system in dual-purpose nuclear power plants 5 suppl.(1969)367

L. Heller and L. Szücs
Optimum system for satisfying a given demand on fresh water and electric power 5 suppl.(1969)385

L. Szücs
A controlled flash evaporator operated by a vapour compressor 45(1983)13

Szymborski S. E.

S.E. Szymborski
Early Action Plan — San Luis Rey Basin desalting facility, City of Oceanside, California 103(1995)147

Tabata H.

H. Tabata and R. Yokoyama
Five years of operating experience of large scale distillation test plant made of carbon steel 27(1978)3

Taboch M.F.

E. Korngold, F. de Körösy, R. Rahav and M.F. Taboch
Fouling of anion-selective membranes in electrodialysis 8(1970)195

Tabor H.

H. Tabor
Solar ponds as heat source for low-temperature multi-effect distillation plants 17(1975)289

H.Z. Tabor
Solar operated, multiflash distillation 33(1980)221

Tabourier B.

M. Lucas and B. Tabourier
The mechanical vapor compression process applied to seawater desalination: A 1,500 ton/day unit installed in the nuclear power plant of Flamanville, France 52(1985)123

Tacchi R.

B. Marcandalli, E. Selli, R. Tacchi, I.R. Bellobono and G. Leidi
A simple device for quality control of polymer films, using measurements of permeation and diffusion coefficients 51(1984)113

Tadros S. K.

S. Tadros
A new look at dual purpose, water and power, plants — Economy and design features 30(1979)613

S.K. Tadros
The efficient production of electricity and water in cogeneration systems 38(1981)99

S.K. Tadros
Power and water production in cogeneration systems 44(1983)101

S. Tadros
Desalination plant integration with cogeneration systems for EOR/commercial/industrial applications 87(1992)137

Taeymans D.

B. Dutre and D. Taeymans
Permeate flux improvement along a tubular ultrafiltration membrane 70(1988)317

Tag El Din A. M. K.

A.M. Shams El Din and A.M.K. Tag El Din
Electrochemical monitoring of the process of boiler cleaning 75(1989)171

A.M. Shams El Din, T.M.H. Saber and A.M. Taj El Din
Titanium hydride formation from Arabian Gulf water 107(1996)265

Tagami M.

R.L. Riley, R.L. Fox, C.R. Lyons, C.E. Milstead, M.W. Seroy and M. Tagami
Spiral-wound poly(ether/amide) thin-film composite membrane systems 19(1976)113

R.L. Riley, C.E. Milstead, A.L. Lloyd, M.W. Seroy and M. Tagami
Spiral-wound thin-film composite membrane systems for brackish and seawater desalination by reverse osmosis 23(1977)331

R.L. Riley, P.A. Case, A.L. Lloyd, C.E. Milstead and M. Tagami
Recent developments in thin-film composite reverse osmosis membrane systems 36(1981)207

Tagliaferri G.

D. Barba, D. Bogazzi, A. Germana and G. Tagliaferri
Design and operational experience with long-tube acid-dosed and cross-tube polyphosphate feed MSF plants 19(1976)15

D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti
Qatar desalination plants 26(1978)109

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Design and operation of 2 x 2.5 mgd Bahrain desalination plants 26(1978)117

D. Barba, A. Germana and G. Tagliaferri
Analysis of very large MSF desalination units 30(1979)553

D. Barba, D. Bogazzi, A. Germaná and G. Tagliaferri
Analysis of large desalination plants 33(1980)1-10, Err. 30(1979)553

D. Barba, G. Di Giacomo, F. Evangelista and G. Tagliaferri
High temperature distillation process with sea water feed decalcification pretreatment 40(1982)347

Taitel Y.

A. Tamir and Y. Taitel
Condensation of steam in a channel flow in the presence of noncondensable gases with surface resistance 8(1970)293

Tak T.-M.

N. Choji, W. Pusch, M. Satoh, T.-M. Tak and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 53(1985)347

Takada M.

M. Takada, S. Kikuchi and J. Gaydos
Reheat type distilling plant 20(1977)385

D.K. Forsyth and M. Takada
Low temperature reheat distilling plant 31(1979)145

M. Takada and J.C. Drake
Application of improved high-performance evaporator 45(1983)3

Takadono S.

S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru
Treatment of highly fouling waste waters with tubular membrane systems 49(1984)347

Takagi T.

J. Sakuma, T. Takagi, S. Yamada and Y. Kibe
Influence of scale prevention on corrosion of heat-transfer tube 14(1974)189

Takahara Y.

C. Yanagi, M. Sato and Y. Takahara
Treatment of wheat starch waste water by a membrane combined two phase methane fermentation system 98(1994)161

Takahashi H.

M. Igawa, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by dynamic membranes 22(1977)281

H. Nomura, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by composite charged membranes 29(1979)239

M. Futakawa, H. Takahashi, G. Inoue and T. Fujioka
Treatment of concentrated cyanide wastewater 98(1994)345

Takahashi S.

T. Sawa, K. Izumi and S. Takahashi
Decarbonation characteristics of the packed tower and its effects on scale prevention in flash evaporation plants 19(1976)369

T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome
The pH control in the large-scale MSF plants by using drop structure type decarbonator 22(1977)415

O. Kuroda, H. Matsuzaki, S. Takahashi, A. Shimozato and Y. Koike
Desalination of brackish water by bubble-cleaning type electrodialyzer in large scale 22(1977)515

T. Sawa, M. Kubota, S. Takahashi and Y. Masaki
Development of water re-use treatment system for municipal wastewater 32(1980)373

O. Kuroda, S. Takahashi and M. Nomura
Characteristics of flow and mass transfer rate in an electrodialyzer compartment including spacer 46(1983)225

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Takahashi T.

G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi
Water re-use in fiber dyeing industry 23(1977)133

Takai N.

T. Yamabe, K. Umezawa, S. Yoshida and N. Takai
Piezodialysis: Styrene-butadiene copolymer membranes 15(1974)127

M. Igawa, S. Yoshida, T. Yamabe and N. Takai
The permselective coefficient of inorganic ions on reverse osmosis membrane 17(1975)257

Takasaki Y.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Takashima S.

R. Dohno, T. Azumi and S. Takashima
Permeability of mono-carboxylate ions across an anion-exchange membrane 16(1975)55

Takashima Y.

A. Kitamoto and Y. Takashima
Transfer rates in electrodialysis with ion exchange membranes 9(1971)51

Takeda M.

T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino
Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis 32(1980)93

Taketani Y.

S. Hara, K. Mori, Y. Taketani, T. Noma and M. Seno
Reverse osmosis membranes from aromatic polymers 21(1977)183

R.L. Goldsmith, B.A. Wechsler, S. Hara, K. Mori and Y. Taketani
Development of PBIL low pressure brackish-water reverse osmosis membranes 22(1977)311

T. Matsuura, Y. Taketani and S. Sourirajan
A physicochemical approach for the choice of polymeric membrane materials for water desalination by reverse osmosis 38(1981)319

Y. Taketani, T. Matsuura and S. Sourirajan
Predictability of RO/UF performance from surface force parameters and data on average pore size and pore size distribution on membrane surface 46(1983)455

Takeuchi H.

M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura
Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules 46(1983)101

Takeuchi K.

O. Futamura, M. Katoh and K. Takeuchi
Organic waste water treatment by activated sludge process using integrated type membrane separation 98(1994)17

Takeuchi Y.

M. Kishi, K. Matsumoto, Y. Takeuchi and K. Hattori
Development of flow model for weir type orifice 55(1985)481

Takizawa S.

Y. Kaiya, Y. Itoh, K. Fujita and S. Takizawa
Study on fouling materials in the membrane treatment process for potable water 106(1996)71

S. Takizawa, K. Fujita and K.H. Soo
Membrane fouling decrease by microfiltration with ozone scrubbing 106(1996)423

Taky M.

M. Taky, G. Pourcelly, C. Gavach and A. Elmidaoui
Chronopotentiometric response of a cation exchange membrane in contact with chromium(III) solutions 105(1996)219

Talaat H. A.

A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik
Parametric evaluation of flux decline during ultrafiltration of protein solutions 68(1988)35

M.H. Sorour, A.G. Abulnour and H.A. Talaat
Desalination of agricultural drainage water 86(1992)63

Talankin V. S.

O.D. Linnikov, V.L. Podbereznyi, M.A. Belyshev, V.M. Balakin and V.S. Talankin
Inhibition efficiency of scale formation by chemical additives 74(1989)355

Talati S.N.

S.N. Talati
Evaluation of reverse osmosis and evaporative desalination systems under feedwater supply constraints typical in arid countries 97(1994)353

Talbot R. E.

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
25 years experience in the development and application of scale inhibitors 31(1979)243

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
The threshold scale inhibition phenomenon 31(1979)257

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
Factors affecting the brine scaling potential in MSF plants 38(1981)175

K.G. Cooper, L.G. Hanlon, G.M. Smart and R.E. Talbot
A model for the fouling of MSF plants based on data from operating units 47(1983)37

K.G. Cooper, L.G. Hanlon and R.E. Talbot
An operating philosophy to optimize the output, plant life and economy of MSF plants operating at high temperatures 54(1985)291

Tallman C. P.

C.P. Tallman, Sr.
Method for extending heat exchanger and condenser life 73(1989)231

Tam C. M.

T.A. Tweddle, C. Striez, C.M. Tam and J.D. Hazlett
Polysulfone membranes. I. Performance comparison of commercially available ultrafiltration membranes 86(1992)27

C.M. Tam, T.A. Tweddle, O. Kutowy and J.D. Hazlett
Polysulfone membranes. II. Performance comparison of polysulfone-poly(N-vinyl-pyrrolidone) membranes 89(1993)275

C.M. Tam and A.Y. Tremblay
Membranes as fractals: Implications and concequences 90(1993)77

Tamaru S.

S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru
Treatment of highly fouling waste waters with tubular membrane systems 49(1984)347

Tambe S.S.

R. Selvaraj, P.B. Deshpande, S.S. Tambe and B.D. Kulkarni
Neural networks for the identification of MSF desalination plants 101(1995)185

Tamimi A.R.

N.K. Nawayseh, M.M. Farid, A.A. Omar, S.M. Al-Hallaj and A.R. Tamimi
A simulation study to improve the performance of a solar humidification-dehumidification desalination unit constructed in Jordan 109(1997)277

Tamir A.

A. Tamir and Y. Taitel
Condensation of steam in a channel flow in the presence of noncondensable gases with surface resistance 8(1970)293

Tamminen E.

Y. El-Mahgary and E. Tamminen
Relevant methods for planning and optimization of power and water production systems of the Gulf countries 92(1993)149

Tamura M.

M. Tamura
New water distillation system incorporating a membrane mist separator 80(1991)105

Tan C.

A.F. Mills, G.L. Hubbard, R.K. James and C. Tan
Experimental study of film condensation on horizontal grooved tubes 16(1975)121

Tanaka K.

Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
Remineralization of desalinated water by limestone dissolution filter 66(1987)365

Tanaka S.

G. Inoue, S. Nagasawa, S. Tanaka and T. Takahashi
Water re-use in fiber dyeing industry 23(1977)133

S. Tanaka, K. Numata, H. Kuzumoto and M. Sekino
New disinfection method in RO seawater desalination systems 96(1994)191

M.K.H. Liew, S. Tanaka and M. Morita
Separation and purification of lactic acid: Fundamental studies on the reverse osmosis down-stream process 101(1995)269

Tanaka T.

R. Endon, T. Tanaka, M. Kurihara and K. Ikeda
New polymeric materials for reverse osmosis membranes 21(1977)35

S. Iwai, H. Ohmori and T. Tanaka
An advanced sewage treatment process — Combination of aerated submerged biological filtration and ultrafiltration with pulverized activated carbon 23(1977)29-36, Err. 25(1978)215

R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura
Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements 46(1983)57

M. Kurihara, W. Pusch and T. Tanaka
Transport properties of Toray's asymmetric cellulose acetate membranes 56(1985)251

Tanaka Y.

K. Kiriyama, Y. Tanaka and I. Mori
Field test on a methane fermentation treatment system incorporating a membrane module for municipal sewage 98(1994)199

Tani Y.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Taniguchi S.

Y. Mimura, S. Taniguchi and E. Tatsumura Mashima
How to obtain highest plant efficiency for RO desalination plant 54(1985)219

Taniguchi Y.

H. Ohya and Y. Taniguchi
On a temperature correction coefficient for the water flux through reverse osmosis membranes of large scale systems 15(1974)245

H. Ohya and Y. Taniguchi
An analysis of reverse osmotic characteristics of ROGA-4000 spiral-wound module 16(1975)359

Y. Taniguchi and S. Horigome
Membrane-water distribution coefficients of ions in cellulose acetate membrane 16(1975)395

Y. Taniguchi
Long-term experiences of 3.5 mgd ROGA-spiral reverse osmosis installation 20(1977)353

J. Kijima, T. Mizuniwa, M. Hayakawa and Y. Taniguchi
Field experience of seawater desalination by reverse osmosis system operating in Saudi Arabia 22(1977)299

T. Sato, M. Imaizumi, O. Kato and Y. Taniguchi
RO applications in wastewater reclamation for re-use 23(1977)65

Y. Taniguchi
An analysis of reverse osmosis characteristics of ROGA spiral-wound modules 25(1978)71

Y. Taniguchi
An overview of pretreatment technology for reverse osmosis desalination plants in Japan 110(1997)21

Tanioka A.

W. Pusch and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 46(1983)425

N. Choji, W. Pusch, M. Satoh, T.-M. Tak and A. Tanioka
Structure investigations of homogeneous cellulose acetate membranes by gas permeation measurements 53(1985)347

Tanios B. Z.

B.Z. Tanios
Marginal operation field of existing MSF distillation plants 51(1984)201

Taniyama T.

Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama
Performance of reverse osmosis membrane in Jeddah Phase I plant 96(1994)215

Tanner M.C.

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

Tanny G.

O. Kedem, G. Tanny and Y. Maoz
A simple electrodialysis stack 24(1978)313

Tanny G. B.

G. Tanny and J. Jagur-Grodzinski
Dynamically formed polyelectrolyte membranes on partially cured cellulose acetate 13(1973)53

N. Vinnikova and G.B. Tanny
The structure and relative transport number of sulphonated polysulphone membranes 24(1978)191

D. Freilich and G.B. Tanny
Hydrodynamic and microporous support pore size effects on the properties and structure of dynamically formed hydrous Zr(IV) — polyacrylate membranes 27(1978)233

G.B. Tanny, D. Hauk and U. Merin
Biotechnical applications of a pleated crossflow microfiltration module 41(1982)299

Tansel B.

B. Tansel, J. Regula and R. Shalewitz
Treatment of fuel oil and crude oil contaminated waters by ultrafiltration membranes 102(1995)301

Tantillo A.

S. D'Alessandro and A. Tantillo
Electrostatic phenomena in ion exchange membranes 9(1971)225

Tao C.

G. Ali, J.H. Dalton, P.D. Judges and C. Tao
Reverse osmosis and ion exchange demineralizer system for Basrah Petrochemical Complex No. 1 76(1989)27

Tao Zuyi

Tao Zuyi and Zhou Haimei
Binary and ternary ion-exchange equilibria, SO42-—Cl—NO3-—201 x 7 system 69(1988)125

Taqui Khan M. M.

V.J. Shah, R.M. Kava, A.V. Rao and M.M. Taqui Khan
A mobile reverse osmosis demonstration plant 69(1988)161

Tarasova N.A.

A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov
Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes 104(1996)113

Tare M. M.

M.M. Tare, M.K. Gada, M.A. Siddiqui and M.H. Mehta
Economics of desalination in water resource management — A comparison of alternative water resources for arid/semi arid zones in developing countries 81(1991)57

Tarleton E. S.

R.J. Wakeman and E.S. Tarleton
Colloidal fouling of microfiltration membranes during the treatment of aqueous feed streams 83(1991)35

Tasaka K.

K. Tasaka, T. Katsura, H. Iwahori and Y. Kamiyama
Analysis of RO elements operated at more than 80 plants in Japan 96(1994)259

Tasca A.

C. Sommariva, R. Borsani and A. Tasca
Distillate purity from MSF: The theoretical design and a real case behaviour 81(1991)309

Tate G. L.

G.L. Tate
The role of liquid oxygen explosive in iceberg utilization and development 29(1979)167

Tatsumi M.

Y. Kojima and M. Tatsumi
Operation of reverse osmosis process for industrial waste water reclamation 23(1977)87

Tatsumoto M.

A. Furuki, K. Hamanaka, M. Tatsumoto and S. Inohara
Automatic control system of MSF process (Acsode®) 55(1985)77

M. Kishi, K. Hattori, M. Tatsumoto and S. Koyama
Development of training simulator for MSFE desalination plant 66(1987)75

Tatsumura Mashima E.

Y. Mimura, S. Taniguchi and E. Tatsumura Mashima
How to obtain highest plant efficiency for RO desalination plant 54(1985)219

Tavory O.

J. Adar, D. Caplin, G. Frank and O. Tavory
Preliminary study of a desalination-power-industrial complex in Israel 5 suppl.(1969)757

Tawabini B.

B. Tawabini, H. Khararjian and N. Fayad
Trihalomethanes (THMs) formation in a distillation process 66(1987)403

Tawara K.

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

Tay J. H.

S.C. Low and J.H. Tay
Vacuum desalination using waste heat from a steam turbine 81(1991)321

J.H. Tay, S.C. Low and S. Jeyaseelan
Vacuum desalination for water purification using waste heat 106(1996)131

Taylor I. G.

I.G. Taylor and L.A. Haugseth
Yuma desalting plant design 19(1976)505

Taylor J. McC.

S.V. Phillips, D.S. Crozier, P.W. McMillan and J. McC. Taylor
Sea water desalination using glass hollow fibre membranes 14(1974)209

Taylor R.N.

F. Sweett, B.R. Smith, P. Casamento and R.N. Taylor
Scale control by polyacrylates: The effects of molecular weight and of traces of metals 8(1970)167

Tazawa Y.

Y. Tazawa, Y. Nojiri and K. Fujii
Behavior of concrete evaporator shells during operation of the module plant at the Chigasaki test facilities 22(1977)111

Teislev B.

B. Teislev
Small on-shore desalination plants 55(1985)589

Telitchenko M.M.

A.G. Pervov and M.M. Telitchenko
Predictions of biological growth in RO systems and its influence on membrane performance 105(1996)173

Temperley T. G.

T.G. Temperley
Desalination and its application to underdeveloped areas 30(1979)319

T.G. Temperley
Material specification, availability and life of desalination equipment in Arabia and the Gulf 31(1979)353

T.G. Temperley
Material specification and the availability and life of desalination equipment in both Saudi Arabia and the Arabian Gulf 33(1980)99

Temstet C.

B. Franquelin, F. Murat and C. Temstet
Application of the multi-effect process at high temperature for large seawater desalination plants 45(1983)81

C. Temstet, G. Canton, J. Laborie and A. Durante
A large high-performance MED plant in Sicily 105(1996)109

Ten Eyck J. R.

D.C. Whitney and J.R. Ten Eyck
Progressive coastal community implements both desalination and reuse in a comprehensive water resource program 87(1992)281

Teppler M.

A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström
Treatment of paper coating colour effluents by membrane filtration 105(1996)263

Terada I.

I. Terada, M. Nakamura and M. Nakao
Water/ethanol permeation properties through poly(hydroxymethylene) and poly(hydroxymethylene-co-fluoroolefin) membrane by pervaporation method 70(1988)455

Terada Y.

K. Kusakari, F. Kawamata, N. Matsumoto, H. Saeki and Y. Terada
Electrodialysis plant at Hatsushima 21(1977)45

Teramoto A.

M. Tsuyumoto, K. Akita and A. Teramoto
Pervaporative transport of aqueous ethanol: Dependence of permeation rates on ethanol concentration and permeate side pressures 103(1995)211

Terlizzi P.M.

P.M. Terlizzi
Economic considerations of a nuclear energy facility for the production of chemicals from sea salt in developing countries 5 suppl.(1969)645

Terpstra R. A.

R.A. Terpstra, B.C. Bonekamp and H.J. Veringa
Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes 70(1988)395

Terranova R.

E. Cardona, S. Culotta, L. Mangiaracina and R. Terranova
Multi-flash desalination and cogeneration to solve the water supply problems in southeastern Sicily 106(1996)121

Terranova V.

R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant 82(1991)337

Tewari P. K.

P.K. Tewari, R.K. Verma, M.P.S. Ramani and S.P. Mahajan
Studies on nucleate boiling of sodium chloride solutions at atmospheric and sub-atmospheric pressures 52(1985)335

P.K. Tewari, M.S. Hanra and M.P.S. Ramani
Relative technoeconomics of multistage flash distillation and reverse osmosis for seawater desalination — A case study 64(1987)203

P.K. Tewari, M.S. Hanra, R.K. Verma and M.P.S. Ramani
Studies on MSF desalination - Process design, construction and startup of a prototype MSF plant in India 73(1989)359

P.K. Tewari, S. Prabhakar and M.P.S. Ramani
Evaluation of thermal desalination and reverse osmosis for the production of boiler feed water from sea water for coastal thermal power stations in India 79(1990)85

P.K. Tewari, R.K. Verma and M.P.S. Ramani
Pressurized heavy water reactor desalination in the Indian context 95(1994)299

P.K. Tewari
One-day seminar on "Desalination and water reuse" (September 24,1994) 101(1995)303

Tewfik S. R.

A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik
Parametric evaluation of flux decline during ultrafiltration of protein solutions 68(1988)35

Thamm W.

W. Thamm and E. Staude
Reverse osmosis of wash waters from simultaneous SO2/NOx wet removal technique of flue gas 61(1987)27

Thampy S. K.

S.K. Thampy, P.K. Narayanan, W.P. Harkare and K.P. Govindan
Seawater desalination by electrodialysis. Part II: A novel approach to combat scaling in seawater desalination by electrodialysis 69(1988)261

S.K. Adhikary, P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan and V.K. Indusekhar
Desalination of brackish water of higher salinity by electrodialysis 84(1991)189

P.K. Narayanan, S.K. Thampy, N.J. Dave, D.K. Chauhan, B.S. Makwana, S.K. Adhikary and V.K. Indusekhar
Performance of the first sea water electrodialysis desalination plant in India 84(1991)201

Thankachan T. S.

P.C. Mayankutty, A.A. Nomani and T.S. Thankachan
Monitoring of organic compounds in feed and product water samples from MSF plants in the eastern coast of Saudi Arabia 74(1989)243

P.C. Mayan Kutty, A.A. Nomani and T.S. Thankachan
Carry over of some high molecular weight organics from seawater to MSF distillates 97(1994)401

K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty
Studies on the vaporization mechanisms of organic pollutants in an evaporator 103(1995)177

Thau G.

G. Thau, R. Bloch and O. Kedem
Water transport in porous and non-porous membranes 1(1966)129-138, Err. 1(1966)296-

Thayer W.L.

W.L. Thayer, L. Pageau and S. Sourirajan
Apparatus for rapid casting of tubular cellulose acetate reverse osmosis and ultrafiltration membranes 21(1977)209

O. Kutowy, W.L. Thayer and S. Sourirajan
High flux cellulose acetate ultrafiltration membranes 26(1978)195

T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan
Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications 32(1980)181

Thiel S. W.

S.W. Thiel and D.R. Lloyd
Physicochemical interactions in pressure driven membrane separation of glucose, ascorbic acid, citric acid, and mannitol from single solute aqueous solution 46(1983)399

Thies K.

K. Thies and J. Hapke
The influence of process temperatures on the design of multi-stage flash distillation plants 31(1979)101

H.-D. Schulze, U. Rohlfs and K. Thies
Enhancement of availability through the early detection of damage in desalination plants 55(1985)297

K. Thies, U. Rohlfs and H.-D. Schulze
Enhancement of the availability of desalination plants by means of in service inspections 55(1985)387

Thio L.

F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra
Estudio de viabilidad de una central nuclear de doblo uso para la zona Catalana 5 suppl.(1969)261

Thiriet L.

L. Thiriet and P. Lièvre
Principaux facteurs d'incertitude de la rentabilité de l'énergie nucléaire pour la production d'eau dessallée 5 suppl.(1969)631

Tholen J. P. P.

J.P.P. Tholen
Investment costs and energy consumption of the MSF/FBE in comparison with the MSF 40(1982)341

Thomas D.G.

J.D. Sheppard and D.G. Thomas
Effect of high axial velocity on performance of cellulose acetate hyperfiltration membranes 8(1970)1

D.G. Thomas and L.G. Alexander
Improved high-performance fluted tube for thin-film evaporation and condensation 8(1970)13

D.G. Thomas, W.L. Griffith and R.M. Keller
The role of turbulence promoters in hyperfiltration plant optimizatlon 9(1971)33

W.L. Griffith, R.M. Keller, D.G. Thomas and W.J. Boegly, Jr.
Effect of brine disposal cost on hyperfiltration plant optimization 11(1972)91

J.D. Sheppard, D.G. Thomas and K.C. Channabasappa
Membrane fouling. Part IV. Parallel operation of four tubular hyperfiltration modules at different velocities with feeds of high fouling potential 11(1972)385

D.G. Thomas
Prospects for further improvement in enhanced heat transfer surfaces 12(1973)189

D.G. Thomas and W.R. Mixon
Engineering development of hyperfiltration with dynamic membranes. Part I. Process and module development 15(1974)287

J.D. Sheppard and D.G. Thomas
Engineering development of hyperfiltration with dynamic membranes. Part II. Brackish water pretreatment pilot plant 15(1974)307

D.G. Thomas, P.H. Hayes, W.R. Mixon and J.D. Sheppard
Engineering development of hyperfiltration with dynamic membranes. Part III. The pilot plant and its performance with brackish water feed 15(1974)325

D.G. Thomas
Engineering development of hyperfiltration with dynamic membranes. Part IV. Economic analysis 15(1974)343

Thomas J.C.

J.C. Thomas
Advanced water treatment (AWT) facility at Madras Refineries Limited, Madras - sewage water reused 98(1994)295

Thomas K.S.

A. Bruno-Vega and K.S. Thomas
The Virgin Islands desalination experience 98(1994)443

Thomassen J. R.

R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot
The proposal for the completely closed system in the Columbus Space Station 83(1991)123

Thompson D. W.

M.E. Abu Goukh and D.W. Thompson
An absorption-desorption stack for cyclic electrodialysis in open system 46(1983)211

D.W. Thompson and A.-Y. Tremblay
Fouling in steady and unsteady state electrodialysis 47(1983)181

D.W. Thompson and A.Y. Tremblay
The performance of cyclic and steady-state electrodialysis separation processes in the presence of iron (II) fouling 48(1983)121

Thompson K.

K. Thompson, R.C. Cooper, A.W. Olivieri, D. Eisenberg, L.A. Pettegrew and R.E. Danielson
City of San Diego potable reuse of reclaimed water: Final results 88(1992)201

P. Fu, H. Ruiz, J. Lozier, K. Thompson and C. Spangenberg
A pilot study on groundwater natural organics removal by low-pressure membranes 102(1995)47

Thompson M. A.

M.A. Thompson
Virginia's first municipal reverse osmosis facility 87(1992)181

J.C. Vickers, M.A. Thompson and U.G. Kelkar
The use of membrane filtration in conjunction with coagulation processes for improved NOM removal 102(1995)57

M.A. Thompson, U.G. Kelkar and J.C. Vickers
The treatment of groundwater containing hydrogen sulfide using microfiltration 102(1995)287

Thorne F.

K. Harding, D.A. Bridle and F. Thorne
Chemical descaling of acid dosed desalination plants 27(1978)273

Thornley F. C.

R. Starmer, F.C. Thornley and J.A. Modet
Problems likely to be encountered in the design of a large flash distillation plant 3(1967)343

Thorsen T.

T. Thorsen
Recovery of phosphoric acid with RO 53(1985)217

Thrasher B. H.

T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione
Design of a small solar-powered desalination system 39(1981)71

Tidball R.A.

R.A. Tidball and G.G. Gaydos
High-temperature desalination plants for nuclear-power stations 5 suppl.(1969)495

R.A. Tidball
600,000 GPD (I) reverse osmosis for 15,000 mg/l lake water 20(1977)19

R.A. Tidball, D. Kuiper, P.H. Lange and R. Kadaj
Operating experiences with seawater reverse osmosis plants in the Middle East 29(1979)319

R.A. Tidball and D. Kuiper
Operating experiences with seawater reverse osmosis plants in the Middle East 32(1980)199

R.A. Tidball and R. Kadaj
Waste heat powered reverse osmosis plants 39(1981)137

Tien C.

S. Srinivasan and C. Tien
Reverse osmosis desalination in tubular membrane duct 3(1967)5

S. Srinivasan and C.Tien
Reverse osmosis in multicomponent systems 5(1968)139

S. Srinivasan and C. Tien
A finite difference solution for reverse osmosis in turbulent flow 7(1969)51

S. Srinivasan and C. Tien
A simplified method for the prediction of concentration polarization in reverse osmosis operation for multicomponent systems 7(1970)133

S. Srinivasan and C. Tien
Reverse osmosis in a curved tubular membrane duct 9(1971)127-139, Err. 12(1973)277

S. Srinivasan and C. Tien
Natural convection effect in reverse osmosis 10(1972)273

C. Tien and S. Srinivasan
Correction to "Reverse osmosis in a curved tubular membrane duct" 12(1973)277-279, Err. 9(1971)127

S. Srinivasan and C. Tien
Effect of imperfect salt rejection on concentration polarization in reverse osmosis systems 13(1973)287

C.-C. Hung and C. Tien
Effect of particle deposition on the reduction of water flux in reverse osmosis 18(1976)173

Tils H.

G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis 47(1983)267

Timm H.

F. Patocka, S. Fries and H. Timm
RO-module with ultrasonic welded membranes 64(1987)423

Tipnis U. K.

S.K. Adhikary, U.K. Tipnis, W.P. Harkare and K.P. Govindan
Defluoridation during desalination of brackish water by electrodialysis 71(1989)301

Tiraboschi P.

P. Tiraboschi
Industrial operating experience of more than three years with a 1440 m3/day Snamprogetti VTE 38(1981)21

P. Tiraboschi
Five years experience in VTE industrial operations and their design improvements 45(1983)321

M. Bertuzzi, M. Polla and P. Tiraboschi
Developments in vertical tube evaporation 52(1985)135

Tiravanti G.

G. Boari, C. Merli, R. Passino and G. Tiravanti
Silica transport through charged membranes 15(1974)3

V. Balice, G. Boari, M. Santori and G. Tiravanti
The electrodialysis — ion exchange demonstration plant at Brindisi 19(1976)447

R. Passino, G. Boari, A. Rozzi and G. Tiravanti
Overpotential phenomena on charged membranes in flow conditions. Transport mechanism in polarization conditions with KCl and HCI solutions and analysis of boundary layer overpotentials 24(1978)55

R. Passino, C. Marra, A. Rozzi and G. Tiravanti
Performance evaluation and process design of an electrodialysis plant by overpotential measurements 41(1982)181

Tishchenko G.

M. Bleha, G. Tishchenko, V. Sumberová and V. Kudela
Characteristic of the critical state of membranes in ED-desalination of milk whey 86(1992)173

Tiwari G. N.

M.S. Sodha, A. Kumar and G.N. Tiwari
Utilization of waste hot water for distillation 37(1981)325

G.N. Tiwari and V.S.V. Bapeshwara Rao
Transient performance of a single basin solar still with water flowing over the glass cover 49(1984)231

Madhuri and G.N. Tiwari
Performance of solar still with intermittent flow of waste hot water in the basin 52(1985)345

G.N. Tiwari, K. Mukherjee, K. Ashok and Y.P. Yadav
Comparison of various designs of solar stills 60(1986)191

G.N. Tiwari and Madhuri
Effect of water depth on daily yield of the still 61(1987)67

Y.P. Yadav and G.N. Tiwari
Monthly comparative performance of solar stills of various designs 67(1987)565

G.N. Tiwari and A. Kumar
Nocturnal water production by tubular solar stills using waste heat to preheat brine 69(1988)309

G.N. Tiwari and A.K. Singh
Thermal efficiency of double slope FRP solar distiller: An analytical and experimental studies 82(1991)223

G.N. Tiwari
Feasibility study of solar distillation plants in South Pacific countries 82(1991)233

G.N. Tiwari and S.A. Lawrence
Thermal evaluation of high temperature distillation under an active mode of operation 85(1992)135

S. Suneja, G.N. Tiwari and S.N. Rai
Parametric study of an inverted absorber double-effect solar distillation system 109(1997)177

Tkach V. I.

V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novikov and V.I. Tkach
Prevention of scale formation in distillation desalination plants by means of seeding 1(1966)50

F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience 1(1966)165

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

Tleimat B. W.

E.D. Howe and B.W. Tleimat
Solar distillers for use on coral islands 2(1967)109

B.W. Tleimat, E.D. Howe and A.D.K. Laird
Assessment of vapor compression distillation 2(1967)287

A.D.K. Laird and B.W. Tleimat
Desalting geothermal brines 19(1976)309-316, Err. 21(1977)234

B.W. Tleimat, E.D. Howe and A.D.K. Laird
Solar-assisted still with vapor-compression option 22(1977)41

Z.M. Jundi and B.W. Tleimat
Test results from a solar boiler for saline water distillation 39(1981)63

B.W. Tleimat
Optimal water cost from solar-powered multieffect distillation 44(1983)153

T. Vermeulen, B.W. Tleimat and G. Klein
Ion-exchange pretreatment for scale prevention in desalting systems 47(1983)149

B. Tleimat and M. Tleimat
A novel 2500 GPD 5-effects wiped-film rotating disk vapor-compression module: Preliminary results 74(1989)289

B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf
The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog 87(1992)97

B. Tleimat and M. Tleimat
Developments in saline water distillation technology 93(1993)15

B.W. Tleimat and M.C. Tleimat
Water recovery from and volume reduction of gray water using an energy efficient evaporator 107(1996)111

Tleimat M. C.

B. Tleimat and M. Tleimat
A novel 2500 GPD 5-effects wiped-film rotating disk vapor-compression module: Preliminary results 74(1989)289

B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf
The use of vapor compression distillation for recycling gray water as an early application in the Antarctic planetary analog 87(1992)97

B. Tleimat and M. Tleimat
Developments in saline water distillation technology 93(1993)15

B.W. Tleimat and M.C. Tleimat
Water recovery from and volume reduction of gray water using an energy efficient evaporator 107(1996)111

Tob P.

D. Hasson, B. Limoni-Relis, R. Semiat and P. Tob
Fouling of RO membranes by phthalate esters contamination 105(1996)13

Todd B.

B. Todd
Corrosion of materials in desalination plants 3(1967)106

J.W. Oldfield and B. Todd
Corrosion considerations in selecting metals for flash chambers 31(1979)365

J.W. Oldfield and B. Todd
Corrosion problems caused by bromine formation in MSF desalination plants 38(1981)233

W.S.W. Lee, J.-W. Oldfield and B. Todd
Corrosion problems caused by bromine formation in additive dosed MSF desalination plants 44(1983)209

J.W. Oldfield and B. Todd
The use of stainless steels and related alloys in reverse osmosis desalination plants 55(1985)261

J.W. Oldfield and B. Todd
Vapour side corrosion in MSF plants 66(1987)171

J.W. Oldfield and B. Todd
Environmental aspects of corrosion in MSF and RO desalination plants 108(1996)27

Todd D. K.

H.G. Spencer, D.K. Todd and D.B. McClellan
Properties of dynamically-formed polyblend membranes 49(1984)193

Todisco A.

H. Gold, A. Todisco, A.A. Sonin and R.F. Probstein
The Avco continuous moving bed ion-exchange process and large scale desalting 17(1975)97

Tödtheide V.

V. Tödtheide, C. Laufenberg and B. Kunz
Waste water treatment using reverse osmosis: Real osmotic pressure and chemical functionality as influencing parameters on the retention of carboxylic acids in multi-component systems 110(1997)213

Toelkes W. E.

W.E. Toelkes
The Ebeye desalination project — Total utilization of diesel waste heat 66(1987)59

Togano H.

T. Nakahara, H. Sasaki, Y. Kanda and H. Togano
Pollution of coastal sea water and sulfate reducing bacteria in connection with microbial corrosion of metallic materials in desalination plants 23(1977)151

Tokarew J. I.

L.E. Kostikow, A.G. Montschinski, J.I. Tokarew and W.I. Mironow
Use of nuclear plants in the desalination of sea water (in German) 4(1968)103

Tokmantsev N. K.

S.I. Golub, I.L. Sergeenko, E.A. Sobolev, V.B. Chernozubov, V.G. Shatsillo, B.I. Tkach, N.K. Tokmantsev and N.N. Musikhin
Comparison of economic data of the main types of the desalting distillation plants 5(1968)29

E.P. Novikov, V.B. Chernozubov, S.I. Golub, V.G. Shatsillo, V.I. Tkach, E.A. Sobolev, A.A. Diakov, I.Z. Sergejenko, E.V. Konstantinova, Z.S. Semeonova, N.K. Tokmantsev, G.G. Semeonov, Z.A. Minuhin and Z.S. Mrejin
Nuclear industrial desalination plant with fast neutron reactor at Shevchenko 6(1969)349

S.I. Golub, V.V. Iljushchenko, S.V. Grigorenko, U.V. Kartowsky and N.K. Tokmantsev
On investigation results of steam separation and heat transfer intensification in distillation desalination units of two types 44(1983)137

Tomani P.

A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström
Treatment of paper coating colour effluents by membrane filtration 105(1996)263

Tomaschke J.

K. Ikeda and J. Tomaschke
Noble reverse osmosis composite membrane 96(1994)113

Tomaszewska M.

M. Tomaszewska
Preparation and properties of flat-sheet membranes from poly(vinylidene fluoride) for membrane distillation 104(1996)1

Tomei G.

S. Arazzini, G. Tomei, E. Ciccone and G. Fiorito
Technical and economical evaluation of an MSF solar energy powered desalination plant 31(1979)443

Tomimura T.

O. Miyatake, T. Tomimura, Y. Ide and T. Fujii
An experimental study of spray flash evaporation 36(1981)113

O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii
Effect of liquid temperature on spray flash evaporation 37(1981)351

Tomizawa S.

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

Tonomura T.

M. Kurihara, N. Harumiya, N. Kanamaru, T. Tonomura and M. Nakasatomi
Development of the PEC-1000 composite membrane for single-stage seawater desalination and the concentration of dilute aqueous solutions containing valuable materials 38(1981)449

R. Bairinji, T. Tanaka, M. Kurihara, N. Kanamaru and T. Tonomura
Characteristics and operating history of Toray spiral-wound cellulose acetate membrane elements 46(1983)57

M. Kurihara, Y. Nakagawa, H. Takeuchi, N. Kanamaru and T. Tonomura
Single-stage seawater desalination at high temperature and salinity as present in the Middle East using PEC-1000 membrane modules 46(1983)101

N. Matsuka, Y. Nakagawa, M. Kurihara and T. Tonomura
Reaction kinetics of sodium bisulfite and dissolved oxygen in seawater and their applications to seawater reverse osmosis 51(1984)163

M. Kurihara, T. Uemura, Y. Nakagawa and T. Tonomura
The thin-film composite low pressure reverse osmosis membranes 54(1985)75

Toren M.

Y. Winograd, A. Solan, and M. Toren
Mass transfer in narrow channels in the presence of turbulence promoters 13(1973)171-186, Err. 13(1973)395

Y. Winograd, M. Toren and A. Solan
Reverse osmosis in shell and tubes 14(1974)173

Torma M.

J. Halzl, Z. Szabó, L. Szücs and M. Torma
Application of the HTGR-CCGT system in dual-purpose nuclear power plants 5 suppl.(1969)367

J. Halzl, Gy. Sigmond, Z. Szabó and M. Torma
Application of nuclear reactors to the alumina and aluminum industry 5 suppl.(1969)773

Torra A.

F. Pascual, F. Oltra, J. Albet, F. Costa, L. Thio and A. Torra
Estudio de viabilidad de una central nuclear de doblo uso para la zona Catalana 5 suppl.(1969)261

Torres M.

F. Troyano, P. Mir and M. Torres
Use of desalination by developing countries 20(1977)427

M. Torres and J.A. Vera
Reverse osmosis seawater desalting plants built by the Minsterio de Obras Publicas y Urbanismo (Spain) 64(1987)443

Tosi A.

A. Tosi, G.M. Guardiani, S. Concari and G.P. Bianchi
ENEL experience of seawater desalination plants 108(1996)345

Tosun I.

C. Özgen and I. Tosun
A theoretical study on hydrodynamics of condensate films over fluted tubes 45(1983)251

Townley J. A.

J.A. Townley, S. Swanback and D. Andres
Recharging a potable water supply aquifer with reclaimed wastewater in Cambria, California 88(1992)341

Toyama S.

S. Toyama
Progress of multistage flash evaporation process in Japan 20(1977)343

S. Toyama
Report on the high flow rate long tube designed multistage flash evaporator test module 22(1977)21

S. Toyama, Y. Nakashima and M. Sato
Assessment of energy consumption in desalination of sea water on the basis of conceptual designs and surveys 40(1982)297

S. Toyama, T. Aragaki, K. Murase and K. Tsumura
Simulation of a multieffect solar distillator 45(1983)101

S. Toyama, T. Aragaki, T. Sato and H. Kato
Hold up and flow of liquid film at a horizontal tube bundle 45(1983)289

S. Toyama, T. Aragaki, H.M. Salah and K. Murase
Dynamic characteristics of a multistage thermal diffusion type solar distillator 67(1987)21

S. Toyama, M. Nakamura, H.M. Salah, S. Futamura and K. Murase
Laboratory test of solar distillator with a heat penetrating plate having a bend 67(1987)67

M.S. Hassan, S. Toyama, K. Murase and M.A. Wahhab
Multieffect solar still for agricultural purposes in hot climate 71(1989)347

K. Murase, S. Kobayashi, M. Nakamura and S. Toyama
Development and application of a roof type solar still 73(1989)111

S. Toyama, K. Murase, S. Kimura and M. Nakamura
Surface evaporation in liquid flowing down an inclined groove 82(1991)387

Toyoda M.

S. Kimura, H. Ohya, Y. Murayama, K. Kikuchi, M. Hirai, M. Toyoda, T. Sonoda and S. Setogawa
Five years operating experience of a 800 cubic meters per day RO seawater desalination plant 54(1985)45

Trägårdh G.

B. Hallström, B. Sivik and G. Trägårdh
The Swedish Membrane Technology Foundation 42(1982)339

I. Ohlson, G. Trägårdh and B. Hahn-Hägerdal
Evaluation of UF and RO in a cellulose saccharification process 51(1984)93

G. Trägårdh
Characterization methods for ultrafiltration membranes 53(1985)25

V. Gekas, B. Hallström and G. Trägårdh
Food and dairy applications: The state of the art 53(1985)95

G. Trägårdh and K. Ölund
A method for characterization of ultrafiltration membranes 58(1986)187

G. Trägårdh and V. Gekas
Membrane technology in the sugar industry 69(1988)9

G. Trägårdh
Membrane cleaning 71(1989)325

A.-S. Jönsson and G. Trägårdh
Ultrafiltration applications 77(1990)135

A.D. Marshall, P.A. Munro and G. Trägårdh
The effect of protein fouling in microfiltration and ultrafiltration on permeate flux, protein retention and selectivity: A literature review 91(1993)65

B. Dutré and G. Trägårdh
Macrosolute-microsolute separation by ultrafiltration: A review of diafiltration processes and applications 95(1994)227

B. Ericsson and G. Trägårdh
Treatment of surface water rich in humus - Membrane filtration vs. conventional treatment 108(1996)117

Tran C. N.

W.G. Light, H.C. Chu and C.N. Tran
Reverse osmosis TFC magnum elements. for chlorinated/dechlorinated feedwater processing 64(1987)411

Traversa E.

G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa
Factors affecting the corrosion behaviour of CN 108 alloy in sea water 74(1989)259

Treffry-Goatley K.

K. Treffry-Goatley, C.A. Buckley and G.R. Groves
Reverse osmosis treatment and reuse of textile dyehouse effluents 47(1983)313

J.W. Hunt, K. Treffry-Goatley, R.L.C. Flemmer, J.D. Raal and C.A. Buckley
A mathematical model of steady-state cross-flow microfiltration in a woven hose support 61(1987)187

J.W. Hunt, C.J. Brouckaert, J.D. Raal, K. Treffry-Goatley and C.A. Buckley
The unsteady-state modelling of cross-flow microfiltration 64(1987)431

K. Treffry-Goatley, K.R. Buijs, A.M. Bindoff and C.A. Buckley
The cross-flow microfiltration of problematic surface and river waters to produce potable water 67(1987)439

K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley
The dewatering of sludges using a tubular filter press 67(1987)467

Treille P.

P. Treille and J.M. Rovel
Sea water desalination by reverse osmosis. Recent experience 14(1974)21

J.J. Allard, J.M. Rovel and P. Treille
Importance of pretreatment in reverse osmosis plant design and its incidence on O and M costs 19(1976)169

J.J. Allard, J.M. Rovel and P. Treille
Potable water supply of Riyadh, the Saudi Arabia Kingdom's capital city, by reverse osmosis desalting plants 20(1977)227

Tremblay A.-Y.

D.W. Thompson and A.-Y. Tremblay
Fouling in steady and unsteady state electrodialysis 47(1983)181

D.W. Thompson and A.Y. Tremblay
The performance of cyclic and steady-state electrodialysis separation processes in the presence of iron (II) fouling 48(1983)121

C.M. Tam and A.Y. Tremblay
Membranes as fractals: Implications and concequences 90(1993)77

Trevalion P. A.

P.A. Trevalion
Nuclear desalination. Symposium held in London, October 30, 1967 3(1967)392

Tribus M.

M. Tribus and J.P. Pezier
Concerning the economic value of experimentation in the design of desalting plants 8(1970)311

Trivedi G. S.

V.K. Indusekhar, G.S. Trivedi and B.G. Shah
Removal of nitrate by electrodialysis 84(1991)213

Trokoz Ya. E.

V.G. Rifert, A.I. Sardak, Y.E. Trokoz and V.A. Podberesny
Heat exchange intensification at condensation inside tubes of film-type evaporators of desalination installations 81(1991)367

Trompeter K. M.

W.J. Boegli, S.H. Suemoto and K.M. Trompeter
Geothermal desalting at the East Mesa test site 22(1977)77

J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter
Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities 48(1983)293

M.L. Arora and K.M. Trompeter
Fouling of RO membranes in wastewater applications 48(1983)299

Troyano F.

F. Troyano, P. Mir and M. Torres
Use of desalination by developing countries 20(1977)427

Trudelle Y.

Y. Trudelle and L. Nicolas
Study of the outer dense layer of cellulose acetate membranes used in reverse osmosis (in French) 4(1968)198

Truesdall J.

J.E. Burke, M. Mickley, J. Truesdall and R.L. Hamilton
Usefulness of networking in membrane plant design and operation 102(1995)77

J. Truesdall, M. Mickley and R. Hamilton
Survey of membrane drinking water plant disposal methods 102(1995)93

Tsao C.K.

C.K. Tsao
Concentration polarization at the phase boundary of an external tubular reverse osmosis membrane 8(1970)243

Tsao T.-C.

S.L. Colten, F.-S. Lin, T.-C. Tsao, S.A. Stern and A.J. Barduhn
Hydrolysis losses in the hydrate desalination process: rate measurements and economic analysis 11(1972)31

Tschernyaev W. A.

Y.I. Koryakin, A. A. Loginov, W.A. Tschernyaev, A.D. Suponev, S.A. Pachomova and A.G. Montschinski
Analysis of the technical and economic data of multi-purpose nuclear plants (in German) 5(1968)201

Tsilingiris P.T.

P.T. Tsilingiris
The analysis and performance of large-scale stand-alone solar desalination plants 103(1995)249

Tsuchiya T.

Y. Kurokawa, T. Tsuchiya and N. Yui
Application of regular solution theory to organic solute rejection by reverse osmosis 29(1979)233

Tsugaya H.

M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya
Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures 80(1991)139

Tsuge H.

H. Tsuge and K. Mori
Reclamation of municipal sewage by reverse osmosis 23(1977)123

H. Tsuge, C. Yanagi and K. Mori
Desalination of sea water by reverse osmosis using tubular module 23(1977)235

T. Matsumura, I. Furuta, M. Takeda, H. Tsuge and Y. Sugino
Considerations on filtration mechanism in pretreatment process of sea water desalination by reverse osmosis 32(1980)93

H. Tsuge, S. Suda and T. Matsumura
Pretreatment of seawater RO feed by means of coagulation-filtration 38(1981)425

Tsukahara S.

Y. Koike, T. Yamadera and S. Tsukahara
Some experiences on waste water re-use for automobile works 23(1977)141

Tsumura K.

S. Toyama, T. Aragaki, K. Murase and K. Tsumura
Simulation of a multieffect solar distillator 45(1983)101

Tsuneishi S.

T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani
Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane 22(1977)253

Tsunoda Y.

Y. Tsunoda and M. Kato
Compact apparatus for sea water desalination by electrodialysis using ion-exchange membranes 3(1967)66

H. Kakihana and Y. Tsunoda
Dual-purpose nuclear power plant incorporating the production of salt 5 suppl.(1969)745

Tsureishi M.

Y. Kunisada, K. Okada, M. Tsureishi, K. Kikuchi, M. Hirai and Y. Murayama
Desalination of high salinity sea water by reverse osmosis (Summary) 46(1983)145

Tsuru T.

S. Nakao, H. Osada, H. Kurata, T. Tsuru and S. Kimura
Separation of proteins by charged ultrafiltration membranes 70(1988)191

T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura
Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures 81(1991)219

Tsuyumoto M.

M. Tsuyumoto, H. Karakane, Y. Maeda and H. Tsugaya
Development of polyion complex hollow fiber membrane for separation of water-ethanol mixtures 80(1991)139

M. Tsuyumoto, K. Akita and A. Teramoto
Pervaporative transport of aqueous ethanol: Dependence of permeation rates on ethanol concentration and permeate side pressures 103(1995)211

Tuayev T.D.

V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range 25(1978)269

Tubashov Y. A.

V.I. Demkin, Y.A. Tubashov, V.I. Panteleev and Y.V. Karlin
Cleaning low mineral water by electrodialysis 64(1987)367

Tucker J. H.

G.W. Murphy and J.H. Tucker
Demineralization behavior of carbon and chemically-modified carbon electrodes 1(1966)247

Tudhope J. S.

D.T. Jamieson, J.S. Tudhope, R. Morris and G. Cartwright
Physical properties of sea water solutions: Heat capacity 7(1969)23

D.T. Jamieson and J.S. Tudhope
Physical properties of sea water solutions: thermal conductivity 8(1970)393

J.D. Isdale, C.M. Spence and J.S. Tudhope
Physical properties of sea water solutions: Viscosity 10(1972)319

Tujimura M.

T. Saitoh, H. Nagai, M. Imai, K. Nakajima and M. Tujimura
Simultaneous removal of DO and TOC in ultrapure water by using UV rays 98(1994)249

Turek M.

M. Turek, J. Mrowiec-Bialon and W. Gnot
Utilization of coal mine brines in the chlorine production process 101(1995)57

M. Turek and M. Gonet
Nanofiltration in the utilization of coal-mine brines 108(1996)171

Turnage J. J.

J.J. Turnage and A.A. Husseiny
An assessment of the market potential for small solar powered desalination plants 39(1981)43

Turner A. G.

E.G. Darton and A.G. Turner
Operating experiences in a sea water reverse osmosis plant in Gibraltar. (1987-1990) 82(1991)51

A.G. Turner, P.S. Neelakantan and N. Gajendran
A novel new water source for Madras Fertilisers Ltd. 98(1994)285

Turturro A.

A. Bottino, G. Capannelli, S. Munari and A. Turturro
High performance ultrafiltration membranes cast from LiCl doped solutions 68(1988)167

Tusel G. F.

I. Kamal, D.K. Emmermann and G.F. Tusel
RO, MSF and VTE/VC desalination: A comparative evaluation 30(1979)499

I. Kamal, D.K. Emmermann and G.F. Tusel
RO, MSF and VTE/VC desalination: A comparative evaluation 33(1980)229

G.F. Tusel and I. Kamal
Design of high efficiency single and dual purpose plants with gas turbines 38(1981)135

G.F. Tusel and I. Kamal
Analysis of water and power costs by various methods, based on Jeddah IV 38(1981)145

G.F. Tusel, B. Ohlemann, D.K. Emmermann and I. Kamal
MEDA: A new thermal concept for desalting plants 38(1981)147

I. Kamal and G.F. Tusel
An evaluation of the energy requirements of desalination processes on the basis of the fuel use performance ratio 40(1982)283

G.F. Tusel and H.E.A. Brüschke
Use of pervaporation systems in the chemical industry 53(1985)327

I.Kamal, W. Schneider and G.F. Tusel
Process arrangements for hybrid sea water desalination plants 76(1989)323

A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
Need and feasibility of nuclear desalination for low cost potable water production 81(1991)505

G.F. Tusel, R. Rautenbach and J. Widua
Seawater desalination plant "Sirte" - an example for an advanced MSF design 96(1994)379

Tweddle T. A.

T.A. Tweddle, W.L. Thayer, T. Matsuura, F-H. Hsieh and S. Sourirajan
Specification of commercial reverse osmosis modules and predictability of their performance for water treatment applications 32(1980)181

T.A. Tweddle, C. Striez, C.M. Tam and J.D. Hazlett
Polysulfone membranes. I. Performance comparison of commercially available ultrafiltration membranes 86(1992)27

C.M. Tam, T.A. Tweddle, O. Kutowy and J.D. Hazlett
Polysulfone membranes. II. Performance comparison of polysulfone-poly(N-vinyl-pyrrolidone) membranes 89(1993)275

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, C.E. Capes, F. McLellan and H. Buisson
Effect of adsorptive fouling on membrane performance: Case study with a pulp mill effluent 101(1995)155

M.M. Dal-Cin, C.N. Striez, T.A. Tweddle, F. McLellan and P. Ramamurthy
Membrane performance with plug screw feeder pressate: operating conditions and membrane properties 105(1996)229

Tyler B.

A.R. George and B. Tyler
Control and instrumentation experience at Lok on Pai MSF seawater desalination plant 39(1981)35

Tzimopoulos M.

W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi
Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance 38(1981)301

Uchida T.

T. Uchida and I. Hayano
Hydrate formation in i-butane-n-butane or a butene isomer water system at a given temperature 3(1967)373

Uchiyama H.

T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani
Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane 22(1977)253

Uchrin C. G.

C.S. Slater, R.C. Ahlert and C.G. Uchrin
Applications of reverse osmosis to complex industrial wastewater treatment 48(1983)171

C.S. Slater, J.M. Zielinski, R.G. Wendel and C.G. Uchrin
Modeling of a small scale reverse osmosis systems 52(1985)267

Uckermann B.

J. Hapke and B. Uckermann
Combined MSF/VTE-modules for hybrid thermal seawater desalination plants 39(1981)373

J. Hapke and B. Uckermann
Process and layout design of a combined MSF/VTE plant 45(1983)113

Udagawa T.

T. Udagawa
Water recycling systems in Tokyo 98(1994)309

Uemura T.

M. Kurihara, T. Uemura, Y. Nakagawa and T. Tonomura
The thin-film composite low pressure reverse osmosis membranes 54(1985)75

M. Kurihara, Y. Fusaoka, T. Sasaki, R. Bairinji and T. Uemura
Developement of crosslinked fully aromatic polyamide ultra-thin composite membranes for seawater desalination 96(1994)133

T. Ikeda, H. Muragishi, R. Bairinji and T. Uemura
Advanced reverse osmosis membrane modules for novel ultrapure water production process 98(1994)391

Ueno Y.

T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani
Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane 22(1977)253

Ugarte J.

S. Muro, R. Sterner and J. Ugarte
Investigation on sea water desalination plants in Spain 28(1979)109

Ugrekelidze G. P.

V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein
The rate of heat transfer of seawater and NaCI solutions under conditions of one- and two-phase flow in tubes 26(1978)175

Ukai T.

T. Ukai, Y. Nimura, K. Hamada and H. Matsui
Development of one pass sea water reverse osmosis module "Hollosep" 32(1980)169

H. Matsui, H. Matsumoto, H. Kuzumoto, M. Sekino, Y. Nimura and T. Ukai
Single-pass desalination of high salinity seawater with reverse osmosis 38(1981)441

Ukawa N.

Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
Remineralization of desalinated water by limestone dissolution filter 66(1987)365

Uliana C.

F. Vigo, G. Capannelli, C. Uliana and S. Munari
Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application 36(1981)63

F. Vigo and C. Uliana
Suitability of reverse osmosis membranes for energy recovery by submarine osmotic power plants 60(1986)45

F. Vigo, C. Uliana and G. Dondero
Ultrafiltration membranes obtained by poly(acrylonitrile) grafted onto poly(vinylchloride) 70(1988)277

Umemori F.

N. Nada, H. Iwahashi and F. Umemori
Test result of the intermittent chlorine injection method in Jeddah 1 plant 96(1994)283

Umezawa K.

T. Yamabe, K. Umezawa, S. Yoshida and N. Takai
Piezodialysis: Styrene-butadiene copolymer membranes 15(1974)127

Unione A. J.

A. Unione, E. Burns and A. Husseiny
Reliability analysis of desalination equipment 32(1980)225

A. Unione, E. Burns and A.A. Husseiny
MSF desalination plants. Availability, reliability and safety analysis 33(1980)49

T.E. Bowman, A.M. El-Nashar, B.H. Thrasher, A.A. Husseiny and A.J. Unione
Design of a small solar-powered desalination system 39(1981)71

Urabe S.

T. Mizoue, Y. Takasaki, Y. Tani, S. Urabe, E. Asada, Y. Cobuchi and K. Doi
Energy-saving electrodialyzer for sea water desalination 38(1981)583

Uragami T.

T. Uragami, K. Maekawa and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. XIV. Permeation characteristics of modified nylon 12 membranes 27(1978)9

T. Uragami, M. Fujimoto and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. 28. Permeation characteristics and structure of interpolymer membranes from poly(vinylidene fluoride) and poly(styrene sulfonic acid) 34(1980)311

T. Uragami, Y. Ohsumi and M. Sugihara
Studies on syntheses and permeabilities of special polymer membranes. 40. Formation conditions of finger-like cavities of cellulose nitrate membranes 37(1981)293

T. Uragami
Separation of aqueous organic liquid solutions through polymer membranes 90(1993)325

Urairi M.

T. Tsuru, M. Urairi, S.-I. Nakao and S. Kimura
Negative rejection of anions in the loose reverse osmosis separation on mono- and divalent ion mixtures 81(1991)219

Urano K.

K. Urano
Present status of electrodialysis process in Japan 20(1977)365

K. Urano
Water reuse with granular activated carbon 23(1977)533

K. Urano, T. Ase and Y. Naito
Recovery of acid from wastewater by electrodialysis 51(1984)213

K. Urano, Y. Masaki and M. Kawabata
Electric resistance of ion-exchange membranes in dilute solutions 58(1986)171

K. Urano, Y. Masaki and Y. Naito
Increase in electric resistance of ion exchange membranes by fouling with naphthalenemonosulfonate 58(1986)177

Urtizberea C.

E. Korngold, S. Belfer and C. Urtizberea
Removal of heavy metals from tap water by a cation exchanger 104(1996)197

Ushakov L. D.

V.A. Klyachko and L.D. Ushakov
Hydraulic principles for the design of electrodialysis desalination plants 2(1967)279

Ushikoshi K.

S. Koga and K. Ushikoshi
Alclose reverse osmosis system 23(1977)105

Vacchelli G.

L. Biondi, E. Crispino, R. Di Menza, F. Gazzabin, E. Merli, R. Negrini, A. Potestà and G. Vacchelli
Alimentation en chaleur d'une installation de dessalement par un réacteur nucléaire à fluide organique à fin unique et de faible puissance 5 suppl.(1969)291

Vadasdi K.

R. Oláh and K. Vadasdi
Investigation of cation transport through cation permselective membranes from solutions of salts composed of strong bases and weak acids 67(1987)547

Vaid A.

A. Vaid, C. Kopp, W. Johnson and A.G. Fane
Integrated waste water treatment by coupled bioreactor and membrane system 83(1991)137

Vaidya A. N.

A.S. Bal, C.G. Malewar and A.N. Vaidya
Development of non-cellulosic membranes for wastewater treatment 83(1991)325

Vaillant J .R.

J.R. Vaillant
Current developments in the research concerning the intervention of man in solar distillation on a meteorological scale to obtain fresh water from sea water in arid and tropical zones (in French) 4(1968)258

Vajna S .

S. Vajna
Desalination of saline water through ion exchange (in German) 3(1967)91

Vajnaht Z.

B. Kunst, G. Arneri and Z. Vajnaht
On the comparison of reverse osmosis membrane performance 16(1975)169-177, Err. 17(1975)395

Valcour Jr. H. C.

H.C. Valcour, Jr. and K.D. McElhinney
Desalting 36,000 ppm well water with electrodialysis: a 5-year report 38(1981)529

H.C. Valcour, Jr.
Recent applications of EDR 54(1985)163

Valdes-Krieg E.

E. Valdes-Krieg, C.J. King and H.H. Sephton
Removal of surfactants and particulate matter from sea water desalination blowdown brines by foam fractionation 16(1975)39

Valfells A.

A. Valfells
Deuterium enriched brine as a by-product from desalination plants 19(1976)55

Z.A. Sabri, A.A. Husseiny, A. Valfells, A.F. Abdul-Fattah and S. Galal
Prospects of the exploitation of advanced energy resources in water production in the Middle East 20(1977)279

Vallini G.

M. Bogliolo, A. Bottino, G. Capannelli, M. De Petro, A. Servida, G. Pezzi and G. Vallini
Clean water recycle in sugar extraction process: Performance analysis of reverse osmosis in the treatment of sugar beet press water 108(1996)261

Valota N. M.

V. Canetta and N.M. Valota
MSF (multi stage flash) desalination plants: Copper alloy tubes, their economic aspects for overall cost reduction 55(1985)307

N.M. Valota
Copper alloy tube for MSF desalination plant: Some practical considerations 66(1987)245

G. Gusmano, C. Simoncelli, N.M. Valota and E. Traversa
Factors affecting the corrosion behaviour of CN 108 alloy in sea water 74(1989)259

Van Boxtel A. J. B.

A.J.B. Van Boxtel and Z.E.H. Otten
New strategies for economic optimal membrane fouling control based on dynamic optimization 90(1993)363

van Daalen J.

J. van Daalen and J.A.M. Smit
The influence of membrane heterogeneity on the solute retention 52(1985)235

Van Den Berg G. B.

G.B. Van Den Berg and C.A. Smolders
Flux decline in ultrafiltration processes 77(1990)101

van den Berkmortel H. A.

J.C. van Dijk, P.J. de Moel and H.A. van den Berkmortel
Optimizing design and cost of seawater reverse osmosis systems 52(1984)57

H.A. van den Berkmortel and A. Graveland
Potable water quality improvement for the city of Amsterdam 98(1994)83

H.A. van den Berkmortel and A. Graveland
Potable water quality improvement for the City of Amsterdam 105(1996)11

van den Boomgaard Th.

J.H. Hanemaaijer, T. Robbertsen, T. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt
Characterization of clean and fouled ultrafiltration membranes 68(1988)93

T. Aritomi, T. van den Boomgaard and H. Strathmann
Current-voltage curve of a bipolar membrane at high current density 104(1996)13

Van den Ende S.

C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele
Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons 95(1994)91

Van Der Horst H. C.

H.C. Van Der Horst and J.H. Hanemaaijer
Cross-flow microfiltration in food industry. State of the art 77(1990)235

van der Leeden M. C.

M.C. van der Leeden and G.M. van Rosmalen
Aspects of additives in precipitation process: performance of polycarboxylates in gypsum growth prevention 66(1987)185

van der Mast V.

L. Awerbuch, V. van der Mast and R. Soo-Hoo
Hybrid desalting systems — A new alternative 64(1987)51

L. Awerbuch, S. May, R. Soo-Hoo and V. Van der Mast
Hybrid desalting systems 76(1989)189

van der Mast V.C.

V.C. van der Mast, S.M. Read and L.A. Bromley
Boiling of natural sea water in falling film evaporators 18(1976)71-94

M. Muhurji, G. Faggard, V. Van Der Mast and H. Imai
Jeddah 1 RO Plant - Phase I: 15 MGD reverse osmosis plant 76(1989)75

van der Meer W.G.J.

W.G.J. van der Meer, C.W. Aeijelts Averink and J.C. van Dijk
Mathematical model of nanofiltration systems 105(1996)25

van der Vaart D. R.

D.R. van der Vaart and E.P. Stahel
An investigation of the modified fouling index as a test for plugging potential of pretreated seawater 68(1988)45

van der Velden P. M.

C.A. Smolders, M.H.V. Mulder and P.M. van der Velden
A survey of structure characterization methods for ultrafiltration and reverse osmosis membranes 19(1976)481

M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay
Use of fluidised beds as turbulence promotors in tubular membrane systems 22(1977)465

van der Waal M. J.

M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay
Use of fluidised beds as turbulence promotors in tubular membrane systems 22(1977)465

van Dijk J. C.

J.C. van Dijk, P.J. de Moel and H.A. van den Berkmortel
Optimizing design and cost of seawater reverse osmosis systems 52(1984)57

J.C. van Dijk, B.R. Munneke, B. Kramer and J.W. Wouters
Membrane filtration: A realistic option in the field of water supply? 81(1991)229

W.G.J. van der Meer, C.W. Aeijelts Averink and J.C. van Dijk
Mathematical model of nanofiltration systems 105(1996)25

van Dissel C. M.

J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel
Scale inhibition of calcium sulfate by a fluidized bed 34(1980)217

van Gassel T. J.

T.J. van Gassel and S. Ripperger
Crossflow microfiltration in the Process industry 53(1985)373

Van Gauwbergen D.

D. Van Gauwbergen, J. Baeyens and C. Creemers
Modeling osmotic pressures for aqueous solutions for 2-1 and 2-2 electrolytes 109(1997)57

D. Van Gauwbergen and J. Baeyens
Macroscopic fluid flow conditions in spiral-wound membrane elements 110(1997)287

Van Haute A.

A. Van Haute and Y. Henderyckx
Permeability of membranes to water vapor 3(1967)169

A. Van Haute and Y. Henderyckx
Permeability of membranes to water vapor 3(1967)169

P. Hoornaert, C. Lefebvre and A. Van Haute
Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes 11(1972)315

I. Goossens and A. van Haute
The influence of mineral fillers on the membrane properties of high flux asymmetric cellulose acetate reverse osmosis membranes 18(1976)203

van Haute A.A.

D.A. Wilms and A.A. van Haute
Thermodynamics and composition of chlorine hydrate 12(1973)379

I. Goossens and A. van Haute
The use of direct osmosis tests as complementary experiments to determine the water and salt permeabilities of reinforced cellulose acetate membranes 26(1978)299

Van Heuven J.W.

J.W. Van Heuven and R.K. Bloebaum
Reverse osmosis by dynamically formed cation exchanger membranes 14(1974)229

Van Hezel J.L.

D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw
The use of reverse osmosis for the treatment of Rhine river water. Part I 14(1974)163

D. Kuiper, J.L. Van Hezel and C.A. Bom
The use of reverse osmosis for the treatment of river Rhine water. Part II 15(1974)193

van Hoek C.

C. van Hoek, J.W. Kaakinen and L.A. Haugseth
Ion exchange pretreatment using desalting plant concentrate for regeneration 19(1976)471

J.W. Kaakinen, R.J. Eisenhauer and C. van Hoek
High recovery in the Yuma desalting plant 23(1977)357

van Leeuwen J. H.

J.(H.) van Leeuwen
Reclaimed water — An untapped resource 106(1996)233

van Oorschot R.

R. van Oorschot and M. French
Wastewater 2040 — Alternative effluent disposal and reuse options for Perth and southern regions 106(1996)157

van Opbergen G.

G. van Opbergen, T. Peters, R. Rautenbach and H. Tils
Reduction of nitrate concentration in drinking water by a hybrid process with zero discharge based on reverse osmosis 47(1983)267

R. Rautenbach, W. Kopp, G. van Opbergen and R. Hellekes
Nitrate reduction of well water by reverse osmosis and electrodialysis — Studies on plant performance and costs 65(1987)241

van Putten W.

M.A.A. Soleman, J. de Graauw and W. van Putten
Large seawater reverse osmosis plant: Design considerations 46(1983)163

van Reenen A. J.

A.J. van Reenen, N.A. Dowler and R.D. Sanderson
The formation of hydrous zirconium (IV) oxide—polyelectrolyte membranes. I. Poly(itaconic acid) and poly(acrylic-co-itaconic acid) 69(1988)1

A.J. Van Reenen and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide—polyelectrolyte membranes V. Non-homogeneous poly(acrylic acid-convinyl alcohol) membranes: Rejection and flux properties and the treatment of coal gasification waste water 72(1989)319

A.J. Van Reenen and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VI. Effect of copolymer composition on the stability of poly(acrylic acid-covinyl acetate) and poly(acrylic acid-covinyl alcohol) membranes 72(1989)329

A.J. Van Reenen and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VII. Poly(acrylic acid-co-vinyl acetate) and poly(acrylic acid-co-vinyl alcohol) membranes: The effect of feed salt concentration on membrane properties 85(1992)247

A.J. Van Reenen, E.P. Jacobs and R.D. Sanderson
Dynamically formed hydrous zirconium (IV) oxide-polyelectrolyte membranes. VIII. Alternative substrate materials for dynamic membranes 85(1992)263

M.J. Hurndall, E.P. Jacobs, A.J. Van Reenen and R.D. Sanderson
Modified poly-2-vinylimidazoline reverse osmosis membranes. II 89(1992)203

R.D. Sanderson, E. Immelman, D. Bezuidenhout, E.P. Jacobs and A.J. Van Reenen
Polyvinyl alcohol and modified polyvinyl alcohol reverse osmosis membranes 90(1993)15

M.J. Hurndall, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(2-vinylimidazoline) composite reverse osmosis membranes 90(1993)41

E. Immelman, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. II. Insolubilization by crosslinking with poly(methyl vinyl ether-alt-maleic anhydride) 94(1993)37

E. Immelman, D. Bezuidenhout, R.D. Sanderson, E.P. Jacobs and A.J. Van Reenen
Poly(vinyl alcohol) gel sub-layers for reverse osmosis membranes. III. Insolubilization by crosslinking with potassium peroxydisulphate 94(1993)115

van Rosmalen G. M.

J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel
Scale inhibition of calcium sulfate by a fluidized bed 34(1980)217

M.P.C. Weijnen, W.G.J. Marchée and G.M. van Rosmalen
A quantification of the effectiveness of an inhibitor on the growth process of a scalant 47(1983)81

J.A.M. Meijer and G.M. van Rosmalen
Solubilities and supersaturations of calcium sulfate and its hydrates in seawater 51(1984)255

M.P.C. Weijnen and G.M. van Rosmalen
The influence of various polyelectrolytes on the precipitation of gypsum 54(1985)239

M.C. van der Leeden and G.M. van Rosmalen
Aspects of additives in precipitation process: performance of polycarboxylates in gypsum growth prevention 66(1987)185

van Swaay W. P. M.

M.J. van der Waal, P.M. van der Velden, J. Koning, C.A. Smolders and W.P.M. van Swaay
Use of fluidised beds as turbulence promotors in tubular membrane systems 22(1977)465

Van Wijk H. F.

H.F. Van Wijk, A.E. Jansen and R.J.M. Creusen
An optimized hyperfiltration process for concentrating aqueous solutions of high osmotic pressure 51(1984)103

Vandecasteele C.

C. Dotremont, S. Goethaert and C. Vandecasteele
Pervaporation behaviour of chlorinated hydrocarbons through organophilic membranes 91(1993)177

C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele
Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons 95(1994)91

Vandommele H.

C. Dotremont, S. Van den Ende, H. Vandommele and C. Vandecasteele
Concentration polarization and other boundary layer effects in the pervaporation of chlorinated hydrocarbons 95(1994)91

Vanwagoner W. T.

L.A. Seach, W.T. VanWagoner and J.M. Spacht
Future reclaimed water use in the Northeast San Fernando Valley 88(1992)225

Varsanik R. G.

J.S. Gill and R.G. Varsanik
Precipitation equilibrium during evaporation of water containing high dissolved salts 60(1986)1

Vartak D. G.

M.K.V. Nair, B.M. Misra and D.G. Vartak
Electrochemical studies on sea water applied to desalination 42(1982)199

Vásárhelyi K.

K. Vásárhelyi, J.A. Ronner, M.H.V. Mulder and C.A. Smolders
Development of wet—dry reversible reverse osmosis membranes with high performance from cellulose acetate and cellulose triacetate blends 61(1987)211

Vasina L. G.

O.I. Martynova, L.G. Vasina and S.A. Pozdniakova
Dissociation constants of certain scale forming salts 15(1974)259

Van Reenen

O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
Evaluation of thermal desalination plants water chemistry 47(1983)63

O.I. Martynova, A.I. Abramov, A.S. Sedlov, L.G. Vasina and I.P. Iljina
Make-up water treatment at thermal power plants and multiple waste water reuse 47(1983)321

O.I. Martynova, L.G. Vasina, A.V. Boglowsky and A.A. Govert
Effect of the correction of the second dissociation constant of carbonic acid on carbonate equilibrium calculations 71(1989)337

O.I. Martynova, L.G. Vasina, A.V. Boglovsky and O.V. Gyseva
Alkaline scale formation restriction in desalination plants by means of antiscalant additives 83(1991)55

L.G. Vasina, A.V. Boglovsky, I.L. Koldajeva and N.V. Noev
Water-chemical regimes of distillation plants operating beyond the calcium sulfate dehydrate scale threshold 105(1996)159

Vasjukov V. I.

V.I. Vasjukov, D.M. Klyikov, V.L. Podbereznyi and V.Y. Shipilov
Floating nuclear desalination plant AFWS-40 89(1992)21

Vassiliou B.

B. Vassiliou and P. Sturla
A new ion exchange approach to the treatment of brackish waters 5(1968)40

Vaudo A.

A. Cassinari, A. Gandellini and A. Vaudo
Conception et implantation du réacteur ROVI: pour le dessalement de l'eau de mer 5 suppl.(1969)297

Vaughan D. A.

A.E. Austin, J.F. Miller, D.A. Vaughan and J.F. Kircher
Chemical additives for calcium sulfate scale control 16(1975)345

Vaulont W.

R. Schnabel and W. Vaulont
High-pressure techniques with porous glass membranes 24(1978)249

Veenman A. W.

A.W. Veenman
The MSF/FBE: An improved multi-stage flash distillation process 19(1976)1

A.W. Veenman
Heat transfer in a multi-stage flash/fluidized bed evaporator (MSF/FBE) 22(1977)55

A.W. Veenman
A review of new developments in desalination by distillation processes 27(1978)21

J.A.M. Meijer, G.M. van Rosmalen, A.W. Veenman and C.M. van Dissel
Scale inhibition of calcium sulfate by a fluidized bed 34(1980)217

Vega R.

R. Vega and E.W. Funk
Solid-liquid equilibria in concentrated aqueous salt solutions — Systems with a common ion 15(1974)225

Velicogna D.

K. Volchek, L. Keller, D. Velicogna and H. Whittaker
Selective removal of metal ions from ground water by polymeric binding and microfiltration 89(1993)247

Velikova S.

V. Mavrov and S. Velikova
Transport characteristics of the reverse osmosis thin film composite membranes 83(1991)279

S. Velikova, V. Mavrov and M. Marinov
Characterization of the reverse osmosis membranes CA 80 and CA 95 by transport coefficients 91(1993)293

S. Velikova, A.M. Dave, V. Mavrov and M.H. Mehta
Comparative evaluation of industrial membranes: Correlation between transport and operational parameters 94(1993)1

Venkatsubramanian K.

K. Venkatsubramanian
Biocatalysis by membrane-attached enzymes and whole microbial cells 35(1980)353

Ventoza T. P.

T.P. Ventoza and D.R. Lloyd
Poly(ether sulfone) membranes for desalination: Membrane preparation and characterization 56(1985)381

Vera J. A.

M. Torres and J.A. Vera
Reverse osmosis seawater desalting plants built by the Minsterio de Obras Publicas y Urbanismo (Spain) 64(1987)443

Verdoes D.

J.T.M. Sluys, D. Verdoes and J.H. Hanemaaijer
Water treatment in a Membrane-Assisted Crystallizer (MAC) 104(1996)135

Verdouw J.

D. Kuiper, C.A. Bom, J.L. Van Hezel and J. Verdouw
The use of reverse osmosis for the treatment of Rhine river water. Part I 14(1974)163

J.C. Schippers, J. Verdouw and J.M. Hofman
Pretreatment of reverse osmosis feedwater by means of in line coagulation 32(1980)103

J.C. Schippers and J. Verdouw
The modified fouling index, a method of determining the fouling characteristics of water 32(1980)137

J.C. Schippers, H.C. Folmer, J. Verdouw and H.J. Scheerman
Reverse osmosis for treatment of surface water 56(1985)109

Vergara S.

J. Fournier, J.L. Grange and S. Vergara
Water desalination by natural freezing 15(1974)167

Veringa H. J.

R.A. Terpstra, B.C. Bonekamp and H.J. Veringa
Preparation, characterization and some properties of tubular alpha alumina ceramic membranes for microfiltration and as a support for ultrafiltration and gas separation membranes 70(1988)395

Verma R. K.

P.K. Tewari, R.K. Verma, M.P.S. Ramani and S.P. Mahajan
Studies on nucleate boiling of sodium chloride solutions at atmospheric and sub-atmospheric pressures 52(1985)335

P.K. Tewari, M.S. Hanra, R.K. Verma and M.P.S. Ramani
Studies on MSF desalination - Process design, construction and startup of a prototype MSF plant in India 73(1989)359

P.K. Tewari, R.K. Verma and M.P.S. Ramani
Pressurized heavy water reactor desalination in the Indian context 95(1994)299

H.K. Sadhukhan, M.P.S. Ramani, B.M. Misra, R.K. Verma and M.S. Hanra
Role of evaporative and membrane desalination technology in solving drinking water problems in India 96(1994)249

Vermeulen T.

G. Klein, S. Cherney, E.L. Ruddick and T. Vermeulen
Calcium removal from sea water by fixed-bed ion exchange 4(1968)158

T. Vermeulen, B.W. Tleimat and G. Klein
Ion-exchange pretreatment for scale prevention in desalting systems 47(1983)149

P. Shain, G. Klein and T. Vermeulen
A mathematical model of the cyclic operation of desalination- feedwater softening by ion-exchange with fluidized-bed regeneration 69(1988)135

Vernon F.

G. Peplow and F. Vernon
Trace metal fouling and cleaning of seawater RO membranes 66(1987)271

Veza J. M.

J.M. Veza, A. Gómez Gotor and J. Pérez Castillo
Desalination technology in the Canary Islands, 1990 85(1992)147

J.M. Veza
Mechanical vapour compression desalination plants - A case study 101(1995)1

Vial D.

R.F. Madsen, J.R. Thomassen, D. Vial and R.A. Binot
The proposal for the completely closed system in the Columbus Space Station 83(1991)123

Viceblatt M. B.

L.S. Sterman, S.I. Golub, V.B. Chernozubov, N.A. Mozarov, M.B. Viceblatt and V.M. Lavygin
The choice of basic parameters of a multi-stage flash plant for sea water desalination 4(1968)94

Viche J. C.

J.J. Libert and J.C. Viche
Some thoughts on the French water desalination program (in French) 30(1979)95

Vickers G. W.

P.M. Wild and G.W. Vickers
The technical and economic benefits of centrifugal reverse osmosis desalination 89(1992)33

Vickers J. C.

J.C. Vickers, M.A. Thompson and U.G. Kelkar
The use of membrane filtration in conjunction with coagulation processes for improved NOM removal 102(1995)57

M.A. Thompson, U.G. Kelkar and J.C. Vickers
The treatment of groundwater containing hydrogen sulfide using microfiltration 102(1995)287

Victor M.

A. Kogan and M. Victor
On some aspects of flash distillation without metallic interfaces 4(1968)80

Victor P. E.

P.E. Victor
Water supply and weather modifications from transferred iceberg from Antarctica to countries of the world's "thirst belt" 29(1979)7

Vigneswaran S.

S. Vigneswaran and Wong Yen Kiat
Detailed investigation of effects of operating parameters of ultrafiltration using laboratory-scale ultrafiltration unit 70(1988)299

S. Vigneswaran, S. Boonthanon and H. Prasanthi
Filter backwash water recycling using crossflow microfiltration 106(1996)31

Vignet P.

P. Balligand, J.P. Agostini, J. Huyghe, F. Lauro and P. Vignet
Etude d'usines de dessalement associées à un réacteur nucléaire du type uranium naturel-gaz-graphite et fonctionnant suivant différents procédés de distillation 5 suppl.(1969)425

Vigo F.

G. Canepa, S. Munari, C. Rossi and F. Vigo
Preparation and properties of membranes obtained by radiation induced grafting of 4-vinylpyridine onto polytetrafluoroethylene films 13(1973)159

F. Vigo, G. Capannelli, C. Uliana and S. Munari
Asymmetric polyvinylidenfluoride (PVDF) radiation grafted membranes: Preparation and performance in reverse osmosis application 36(1981)63

F. Vigo, G. Capannelli and S. Munari
Amphoteric membrane preparation and their application to saline water hyperfiltration 37(1981)313

F. Vigo and C. Uliana
Suitability of reverse osmosis membranes for energy recovery by submarine osmotic power plants 60(1986)45

F. Vigo, C. Uliana and G. Dondero
Ultrafiltration membranes obtained by poly(acrylonitrile) grafted onto poly(vinylchloride) 70(1988)277

Vilentchuk I.

I. Vilentchuk
Present technological status of the multi-stage flash type evaporation process 4(1968)220

Villagra M. J.

M. Fariñas, J.M. Granda, L. Gurtubai and M.J. Villagra
Pilot experiences on the recovery of polluted reverse osmosis membranes 66(1987)385

Vinberg P.

B. Ericsson, B. Hallmans and P. Vinberg
Optimization for design of large RO seawater desalination plants 64(1987)459

Vingeswaran S.

C. Visvanathan, R. Ben Aim and S. Vigneswaran
Application of cross-flow electro-microfiltration in chromium wastewater treatment 71(1989)265

Vinit J.

J. Vinit, C. Noel and L. Monnerie
Physicochemical processes occurring during the formation of cellulose diacetate membranes research of criteria for optimizing membrane performance. II. Influence of cellulose diacetate chain hydration on the effect of heat treatment 15(1974)267

Vinnikova N.

N. Vinnikova and G.B. Tanny
The structure and relative transport number of sulphonated polysulphone membranes 24(1978)191

Visvanathan C.

C. Visvanathan, R. Ben Aim and S. Vigneswaran
Application of cross-flow electro-microfiltration in chromium wastewater treatment 71(1989)265

Vofsi D.

B. Bikson, J. Jagur-Grodzinski and D. Vofsi
Morphology of polyethylene-based ion exchange membranes 24(1978)95

E. Korngold and D. Vofsi
Water desalination by ion-exchange hollow fibers 84(1991)123

Volcheck K. A.

Y.I. Dytnersky, K.A. Volcheck and N.B. Polyanskaya
Separation of multicomponent solutions using reagent ultrafiltration 81(1991)273

Volchek K.

K. Volchek, L. Keller, D. Velicogna and H. Whittaker
Selective removal of metal ions from ground water by polymeric binding and microfiltration 89(1993)247

Von Berg R.L.

H.F. Wiegandt, R.L. Von Berg and P.R. Patel
The crossflow piston bed 25(1978)303

H.F. Wiegandt and R.L. Von Berg
Myths about freeze desalting 33(1980)287

von Löbbecke H.-D.

A.A.A. Shawly, F. Girgis, A. Kreuzer and H.-D. von Loebbecke
Gas turbine a major factor to reduce capital and operating costs for dual purpose desalination and power plant 44(1983)17

H.-D. von Löbbecke
The part of the private sector in global water planning: The role of desalination 100(1995)21

Vonk M. M.

M.W. Vonk and J.A.M. Smit
Thermodynamics of ternary systems in reverse osmosis 48(1983)105

Voropoulos K.

V. Belessiotis, K. Voropoulos and E. Delyannis
Experimental and theoretical method for the determination of the daily output of a solar still: input-output method 100(1995)99

K. Voropoulos, E. Delyannis and V. Belessiotis
Thermo-hydraulic simulation of a solar distillation system under pseudo steady-state conditions 107(1996)45

Voros N.G.

N.G. Voros, Z.B. Maroulis and D. Marinos-Kouris
Salt and water permeability in reverse osmosis membranes 104(1996)141

C.T. Kiranoudis, N.G. Voros and Z.B. Maroulis
Wind energy exploitation for reverse osmosis desalination plants 109(1997)195

Vortman W. J.

K. Treffry-Goatley, M.I. Buchan, G.E. Rencken, W.J. Vortman and C.A. Buckley
The dewatering of sludges using a tubular filter press 67(1987)467

Vos K.D.

U. Merten, H.K. Lonsdale, R.L. Riley and K.D. Vos
Performance of cellulose acetate membranes in sea water desalination 3(1967)353

K.D. Vos, I. Nusbaum, A.P. Hatcher and F.O. Burris, Jr.
Storage, disinfection, and life of cellulose acetate reverse osmosis membranes 5(1968)157

Vossenkaul K.

R. Rautenbach, K. Vossenkaul, T. Linn and T. Katz
Waste water treatment by membrane processes — New development in ultrafiltration, nanofiltration and reverse osmosis 108(1996)247

Vuoristo M.

K. Kontturi and M. Vuoristo
Adsorption of globular proteins on polymeric microfiltration membranes 104(1996)99

Vyas M. D.

M.D. Vyas and I.C. Mody
Morphological study of cellulose acetate benzoate membranes by scanning electron microscopy 42(1982)107

Wachenfeldt J.

B. Ericsson, M. Hallberg and J. Wachenfeldt
Nanofiltration of highly colored raw water for drinking water production 108(1996)129

Wachtel S. J.

L.P. Hatch, G.G. Weth and S.J. Wachtel
Scale control in the high temperature distillation of saline waters by means of fluidized-bed heat exchangers 1(1966)156

Wada A.

A. Wada, N. Katano and T. Goto
Prediction of the diffusion of discharged brine by a simulation analytical method 22(1977)91

Wade N. M.

N.M. Wade
A review of scale control methods 31(1979)309

N.M. Wade and M.R. Hornsby
Distillation and reverse osmosis: energy consumption and costs 40(1982)245

M. Fadel, K. Wangnick and N.M. Wade
Floating desalination plants. An engineering, operating and economic appraisal 45(1983)49

N.M. Wade, R. Heaton and D.G. Boulter
Desalination and water reuse. Comparison of MSF and RO in dual purpose power and water plants 55(1985)373

N.M. Wade
RO design optimization 64(1987)3

N.M. Wade
Likelihood of significant cost reductions in desalination 78(1990)147

N.M. Wade
The effect of the recent energy cost increase on the relative water costs from RO and distillation plant 81(1991)3

N.M. Wade
Technical and economic evaluation of distillation and reverse osmosis desalination processes 93(1993)343

A.J. Morton, I.K. Callister and N.M. Wade
Environmental impacts of seawater distillation and reverse osmosis processes 108(1996)1

Wade P.

P. Wong, P. Docker, E. Gabbrielli and P. Wade
Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia 98(1994)225

Waes G.

W. Doyen, R. Leysen, J. Mottar and G. Waes
New composite tubular membranes for ultrafiltration 79(1990)163

Wagialla K. M.

I.S. Al-Mutaz and K.M. Wagialla
Techno-economic feasibility of extracting minerals from desalination brines 69(1988)297

Wagner H.

K. Kneifel, G. Lührs and H. Wagner
Nitrate removal by electrodialysis for brewing water 68(1988)203

Wagner J.

M.J.H. Snow, D. de Winter, R. Buckingham, J. Campbell and J. Wagner
New techniques for extreme conditions: High temperature reverse osmosis and nanofiltration 105(1996)57

Wagner W. M.

D.R. Finnegan and W.M. Wagner
Process selection guide to seawater desalting 38(1981)29

Wahhab M. A.

M.S. Hassan, S. Toyama, K. Murase and M.A. Wahhab
Multieffect solar still for agricultural purposes in hot climate 71(1989)347

Wahlgren M.

W. Zhang, M. Wahlgren and B. Sivik
Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles 72(1989)263

B. Sivik, M. Wahlgren and Y. Miezis
A rheological screening method for membrane modifying polymers 77(1990)181

Wakamatsu K.

O. Kuroda, S. Takahashi, K. Wakamatsu, S. Itoh, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma and K. Nishinoiri
An electrodialysis sea water desalination system powered by photovoltaic cells 65(1987)161

Wakamatsu S.

O. Kuroda, S. Takahashi, S. Kubota, K. Kikuchi, Y. Eguchi, Y. Ikenaga, N. Sohma, K. Nishinoiri, S. Wakamatsu and S. Itoh
An electrodialysis sea water desalination system powered by photovoltaic cells 67(1987)33

Wakeman R. J.

R.J. Wakeman and E.S. Tarleton
Colloidal fouling of microfiltration membranes during the treatment of aqueous feed streams 83(1991)35

Wakley G.E.

G.J. Gittens, P.A. Hitchcock, D.C. Sammon and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part I. Membranes prepared from a dioxan based dope 8(1970)369

G.J. Gittens, P.A. Hitchcock and G.E. Wakley
The structure of cellulose acetate membranes for reverse osmosis. Part 2. Transmission and scanning electron microscopy of membranes cast from an acetone-formamide dope 12(1973)315

Walch A.

W. Pusch and A. Walch
Synthetic membranes: State of the art 35(1980)5

A. Walch
Preparation and structure of synthetic membranes 46(1983)303

Walden D. F.

D.F. Walden and M. Goren
Innovative independent power plant financing applied to desalination projects 102(1995)155

Waldman M.

D. Ashboren and M. Waldman
Water for life: Israel's R & D for water renovation and sweet water production 30(1979)213

Walinsky S. W.

S.W. Walinsky and B.J. Morton
Chemistry of alkaline scale inhibition in seawater desalination by FLOCON Antiscalant 247 31(1979)289

M.H. Auerbach, J.J. O'Neill, R.A. Reimer and S.W. Walinsky
Foam control additives in MSF desalination 38(1981)159

S.W. Walinsky, B. J. Morton and J.J. O'Neill
Structure/performance relationships of high-temperature MSF scale control additives 38(1981)203

Walker C. W.

T.M. Missimer, C.W. Walker and F. Bloetscher
Use of aquifer storage and recovery technology to improve membrane water treatment plant efficiency, Collier County, Florida 87(1992)269

Walker J. F.

R.G. Cameron, I.G. Lyle, J.F. Walker and R. Paterson
A comparison of the electro-osmotic properties of charged polymer membranes and those predicted from binary electrolyte solution models. Part I. Univalent forms of sulphonate membranes and chloride electrolyte models 17(1975)313

Walker P. T.

P.T. Walker, I. Newson and K.D.B. Johnson
Development of direct contact flash distillation concepts 2(1967)196

Wallace R.A.

R.A. Wallace and J.P. Ampaya
Transport within ion-exchange membranes 14(1974)121

Wallen B.

J. Olsson and B. Wallen
Experience with a high molybdenum stainless steel in saline environments 44(1983)241

S. Nordin, B. Ericsson and B. Wallen
Optimization of high pressure piping in reverse osmosis plants 55(1985)247

Waller F. V.

W. Schneider and F.V. Waller
Hydrate process performance with low density additives 18(1976)189

Walsh D.

A. Zelman, D. Walsh, H. Wayt and D. Gisser
Rapid filtration of non-electrolytes by electroosmosis 25(1978)253

Walters A.

M.P. La Bar, R.W. Schleicher, Jr., G.T. Loh and A. Walters
Power and water co-production feasibility study of Florida power and light power plants 88(1992)267

Walton N. R. G.

N.R.G. Walton
Some observations on the considerable variability of silt density index results due to equipment, filter and operator variables 61(1987)201

N.R.G. Walton
The significance of colour changes in some reverse osmosis permeators 68(1988)29

N.R.G. Walton
Electrical conductivity and total dissolved solids - what is their precise relationship? 72(1989)275

N.R.G. Walton
RO pre-treatment — Injecting a little chemical control and management 82(1991)281

Wang Anlai

Yu Xianda, Wang Anlai and Cao Suqin
Water-vapor permeability of polyvinyl alcohol films 62(1987)293

Wang C. S.

C.S. Wang, R. Greif and A.D.K. Laird
Heat transfer in a rotating disk evaporator 33(1980)259

Wang Dazhong

Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang
The 200 MW nuclear heating reactor and its possible application in seawater desalination 99(1994)367

Wang Fang

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Wang Jaukai

Tingchia Huang and Jaukai Wang
Preferential transport of nickel and cupric ions through cation exchange membrane in electrodialysis with a complex agent 86(1992)257

Wang Lihua

Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang
The 200 MW nuclear heating reactor and its possible application in seawater desalination 99(1994)367

Wang Linfu

A.M. Shams El Din and Linfu Wang
Mechanism of corrosion inhibition by sodium molybdate 107(1996)29

Wang Lining

Liu Yurong, Lang Kangmin, Chen Yiming, Wang Lining and Qu Peixing
Low-pressure reverse osmosis drying membrane reinforced by polyester web 64(1987)403

Liu Yurong, Chen Yiming, Wang Lining and Jiang Jianhua
Study of stevioside preparation by membrane separation process 83(1991)375

Yu-rong Liu, Yi-ming Chen, Li-ning Wang and Dong-sheng Chen
A study of the modified reinforced polysulfone membrane and its pilot scale-up 96(1994)145

Wang Qinlai

Wang Sanfan and Wang Qinlai
Experimental studies on pretreatment process of brackish water using electrocoagulation (EC) method 66(1987)353

Wang Qunshu

Yitang Chen, Qunshu Wang and Shouxiang Jiang
Abstracts from Technology of Water Treatment 79(1990)95

Wang S. S.

D.E. Potts, R.C. Ahlert and S.S. Wang
A critical review of fouling of reverse osmosis membranes 36(1981)235

Wang Sanfan

Wang Sanfan and Wang Qinlai
Experimental studies on pretreatment process of brackish water using electrocoagulation (EC) method 66(1987)353

Wang Sanfan
Studies on economic property of pretreatment process of brackish water using electrocoagulation (EC) method 82(1991)365

Wang Schichang

Xu Kejun, Wang Schichang and Yang Yaozhong
Solutions for problems in corrosion and environmental impact on 2x3000 m3/d MSF desalination plants 97(1994)159

Wang Shichang

Shichang Wang
The exergetic efficiency of MSF process and the conditions of desalination by waste heat 44(1983)39

Wang Shi-chang
Ten years' development on distillation in China 64(1987)211

Wang Shizhu

Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin
Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes 62(1987)315

Wang Shusen

Shusen Wang and Giajun Hu
Membrane fouling and determination of gel layer growth rate in membrane separation 56(1985)405

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Wang Tentsai

Tingchia Huang and Tentsai Wang
A study on the transport behavior of cations in ion exchange membrane electrodialysis 21(1977)327

Wang Wang

Chen Jiayan, Wang Liancheng and Zhu Zhengyu
Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations 86(1992)301

Wang Wentong

Wang Wentong
Investigation of performance of TMM-FA composite membrane for reverse osmosis 69(1988)235

Wang Wentong
Composite melamine-formaldehyde-furfuralcohol copolymerization membrane for reverse osmosis 70(1988)137

Wang Xuesong

Wang Xuesong
Mass transfer and the fluidized bed intensification of reverse osmosis 62(1987)211

Wang Y.

Y. Wang, W.Y. Lau and S. Sourirajan
Effects of pretreatments on morphology and performance of cellulose acetate (formamide type) membranes 95(1994)155

Wang Ying

Ying Wang et al.
Desalination by reverse osmosis in China 46(1983)35

Ying Wang et al.
Desalination by the use of dynamically formed PVA membranes 46(1983)335

Wang Ying
RO desalination in Northwest China 69(1988)57

Wang Zhen

Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang
Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis 107(1996)217

Wang Zhenkun

Wang Zhenkun, Zhang Huanxin and Chan Ruiying
A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions 62(1987)165

Wang Zhizhong

Ling Ai-lian, Gao Yi-yuan and Wang Zhi-zhong
The influence of different types of metal complex on the transitivity of reverse osmosis membranes 62(1987)377

Wang Zhizhou

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Wangnick K.

K. Wangnick
Ship-mounted seawater 2500 m3/d flash evaporation plant for Abu Dhabi. Economical drinking water for arid regions 41(1982)171

M. Fadel, K. Wangnick and N.M. Wade
Floating desalination plants. An engineering, operating and economic appraisal 45(1983)49

K. Wangnick
Selection of small desalination plants for specific locations: Reverse osmosis, flash distillation, vapour compression 52(1985)145

K. Wangnick
The production of boiler feedwater from field formation water In enhanced oil recovery (EOR) systems 56(1985)143

G. Fosselard and K. Wangnick
Comprehensive study on capital and operational expenditures for different types of seawater desalting plants (RO, MVC, ME, ME-TVC, MSF) rated between 200 m3/d and 3,000 m3/d 76(1989)215

K. Wangnick
1990 worldwide desalting plants inventory. The development of the desalination market 81(1991)19

A. Ez-Dean, M.J. Crijns, Kupitz, G.F. Tusel and K. Wangnick
Need and feasibility of nuclear desalination for low cost potable water production 81(1991)505

Wankat P. C.

P.C. Wankat
Desalination by natural freezing 13(1973)147

Wanklyn J.N.

J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence
The corrosion of aluminium alloys in hot brine 9(1971)245

Wännström S.

A.-S. Jönsson, C. Jönsson, M. Teppler, P. Tomani and S. Wännström
Treatment of paper coating colour effluents by membrane filtration 105(1996)263

Warner R.E.

B.A. Bolto and R.E. Warner
An ion-exchange process with thermal regeneration. VII. The rates of neutralization of weak electrolyte resins 8(1970)21

Warshawsky A.

O. Kedem, J. Cohen, A. Warshawsky and N. Kahana
EDS: sealed cell electrodialysis 46(1983)291

I. Rubinstein, A. Warshawsky, L. Schechtman and O. Kedem
Elimination of acid-base generation ('water-splitting') in electrodialysis 51(1984)55

Watanabe K.

K. Watanabe, T. Hamada, T.S. Thankachan and P.C. Mayan Kutty
Studies on the vaporization mechanisms of organic pollutants in an evaporator 103(1995)177

Waters P.F.

N.A. Karamian and P.F. Waters
A membrane for removing endotoxins from aqueous solutions 17(1975)329

Watkins G. S.

G.S. Watkins and H.B. Gupta
A comparative study of organic fouling in hollow fiber and spiral wound membranes 66(1987)299

Watson B. M.

J. Block, B.M. Watson, L.A. Burkholder and B. Albano
Effect of iron and copper during scale suppression by threshold compounds 15(1974)279

J. Block and B.M. Watson
Magnesium scales from seawater distillation 19(1976)359

B.M. Watson and K. Eimer
Comparison of MSF heat rejection sections and seawater cooled power station condensers 38(1981)49

B.M. Watson and C.D. Hornburg
Low-energy membrane nanofiltration for removal of color, organics and hardness from drinking water supplies 72(1989)11

B.M. Watson
High recovery reverse osmosis 78(1990)91

B.E. Smith, D. Paul, W. H. Harlow, H.L. Rhodes, W.J. Conlon, B.M. Watson, T.M. Leahy and O.K. Buros
The Disposal of desalting concentrates where do we go from here? A roundtable discussion 78(1990)99

W.J. Conlon, C.D. Hornburg, B.M. Watson and C.A. Kiefer
Membrane softening: The concept and its application to municipal water supply 78(1990)157

B.M. Watson
Considerations in assessing rehabilitation of damaged 20 mgd Shuwaikh 'D' plants, Kuwait 88(1992)145

C.D. Hornburg and B.M. Watson
Operational optimization of MSF systems 92(1993)333

B. Watson, G. Marks, E. Gabbrielli and L. Chapple
Design and operation of a 5 ml/d RO desalination plant in arid Australia 96(1994)369

B.M. Watson, C.D. Hornburg and R. Collins
Blending and post-treatment protocols for SDWA compliance — Hollywood (FL) water plant 102(1995)1

Watson I. C.

P.H. Lange, P.E. Laverty, E.D. Edwards and I. Watson
THM precursor removal and softening - Ft. Myers 12 MGD RO Membrane Plant, Florida, USA 76(1989)39

I.C. Watson
Characterization of desalting concentrates 78(1990)5

J.W. Lewis, C.M. Ferrara and I.C. Watson
Desalting oil field by-product water 87(1992)229

W.R. Mills, Jr. and I.C. Watson
Water Factory 21 — The logical sequence 98(1994)265

S. Kopko, M. Seamans, J.E. Nemeth and I.C. Watson
Desalting in Cape Coral, FL — An operating update 102(1995)245

G. Filteau, C. Whitley and I. Watson
Water reclamation fuels economic growth in Harlingen, Texas. Reclamation of municipal wastewater for industrial process use 103(1995)31

Watters J. C.

J.C. Watters, E. Klein, M. Fleischman, J.S. Roberts and B. Hall
Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack 60(1986)93

M.W. Robertson, J.C. Watters, P.B. Desphande, J.Z. Assef and I.M. Alatiqi
Model based control for reverse osmosis desalination processes 104(1996)59

Waypa J.J.

M. Elimelech, William H. Chen and J.J. Waypa
Measuring the zeta (electrokinetic) potential of reverse osmosis membranes by a streaming potential analyzer 95(1994)269

Wayt H.

A. Zelman, D. Walsh, H. Wayt and D. Gisser
Rapid filtration of non-electrolytes by electroosmosis 25(1978)253

Wearmouth J. W.

H.W. Greig and J.W. Wearmouth
An economic comparison of 2 x1000 m3 /day desalination plants 64(1987)17

Wechsler B. A.

R.L. Goldsmith, B.A. Wechsler, S. Hara, K. Mori and Y. Taketani
Development of PBIL low pressure brackish-water reverse osmosis membranes 22(1977)311

Weekes M. C.

L. Awerbuch and M.C. Weekes
Disposal of concentrates from brackish water desalting plants by means of evaporation technology 78(1990)71

Wehner M.

M. Wehner
A research and demonstration project permit under the new California groundwater recharge regulations 87(1992)37

Wei Jianmin

Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang
Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis 107(1996)217

Wei X.

Z. Changluo, L. Moe, X. Wei and J. Wenchang
A study on characteristics and enhancement of pervaporation - membrane separation process 71(1989)1

Weida J.

J. Weida
A new type of electrodialyzer 96(1994)127

Weijnen M. P. C.

M.P.C. Weijnen, W.G.J. Marchée and G.M. van Rosmalen
A quantification of the effectiveness of an inhibitor on the growth process of a scalant 47(1983)81

M.P.C. Weijnen and G.M. van Rosmalen
The influence of various polyelectrolytes on the precipitation of gypsum 54(1985)239

Weill D. E.

B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis
An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin 13(1973)269

Weinberg J.

J. Weinberg and U. Fisher
Present and future energy aspects in VC, MED single and dual purpose desalination plants 40(1982)49

J. Weinberg and Y. Rotstein
Operation of a horizontal tube brine concentrator 40(1982)159

Weinstein J.N.

J.N. Weinstein, B.J. Bunow and S.R. Caplan
Transport properties of charge-mosaic membranes. I. Theoretical models 11(1972)341

J.N. Weinstein, B.M. Misra, D. Kalif and S.R. Caplan
Transport properties of charge-mosaic membranes. II. Experimental studies 12(1973)1

C.R. Gardner, J.N. Weinstein and S.R. Caplan
Transport properties of charge-mosaic membranes. III. Piezodialysis 12(1973)19

J.N. Weinstein and F.B. Leitz
Piezodialysis: a comparison of theoretical treatments 16(1975)245

Weintraub M.

M. Weintraub and S. Loeb
Relationships between concentration, solute mass and membrane rejection 17(1975)131

Weiss D. E.

D.E. Weiss
Role of ion-exchange desalination in municipal water supplies 1(1966)107

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

Weldring J. A. G.

S. Bruin, A. Kikkert, J.A.G. Weldring and J. Hiddink
Overview of concentration polarization in ultrafiltration 35(1980)223

Wellens C.

M. Rommel, M. Köhl, W. Graf, C. Wellens, F. Brucker, K. Lustig and P. Bahr
Corrosion-free collectors with selectively coated plastic absorbers 109(1997)149

Welsch K.

R.M. McDonogh, K. Welsch, A.G. Fane and C.J.D. Fell
Flux and rejection in the ultrafiltration of colloids 70(1988)251

R. Rautenbach and K. Welsch
Treatment of landfill gas by gas permeation - pilot plant results and comparison to alternatives 90(1993)193

Wen C. P.

H.B. Hopfenberg, K.L. Lee and C.P. Wen
Improved membrane separations by selective chelation of metal ions in aqueous feeds 24(1978)175

Wen T.

T. Wen, G.S. Solt and Y.F. Sun
Spirally wound electrodialysis (SpED) modules 101(1995)79

T. Wen, G.S. Solt and Y.F. Sun
Modelling the cross flow spirally wound electrodialysis (SpED) process 103(1995)165

M. Law, T. Wen and G.S. Solt
Thickness and concentration profile of the boundary layer in electrodialysis 109(1997)95

Wenchang J.

Z. Changluo, L. Moe, X. Wei and J. Wenchang
A study on characteristics and enhancement of pervaporation - membrane separation process 71(1989)1

Wendel R. G.

C.S. Slater, J.M. Zielinski, R.G. Wendel and C.G. Uchrin
Modeling of a small scale reverse osmosis systems 52(1985)267

Wenfang Shi

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Weng P. F.

P.F. Weng
Silica scale inhibition and colloidal silica dispersion for reverse osmosis systems 103(1995)59

Wenner A.

A. Wenner and E.F. Feo
Project financing of desalination facilities 102(1995)119

A. Wenner
Private sector development of desalination facilities 107(1996)1

Wentong W.

Hao Jihua, Wang Wentong, Yang Puchen and Zhao Qingshuang
The preparation of quaternized polysulfon membranes for low pressure reverse osmosis 83(1991)361

Wenzel H.

H. Wenzel, H.H. Knudsen, G.H. Kristensen and J. Hansen
Reclamation and reuse of process water from reactive dyeing of cotton 106(1996)195

Werner U.

G. Schulz and U. Werner
Gas separation using the membrane rectification technique 51(1984)123

H. Zhang and U. Werner
Characterization of surface change properties of synthetic microfiltration membranes by means of a streaming current method 79(1990)271

Wesselingh J. A.

J.A.M. Meijer, J.A. Wesselingh, A. Clobus and M.L.A. Goossens
Impacts against the wall of a scaled-up fluidized bed 58(1986)1

Westerbaan W. F.

J.A.S. Green, B.W. Gamson and W.F. Westerbaan
Experience with desalination plants containing titanium heat exchange tubing 22(1977)359

Weth G. G.

L.P. Hatch, G.G. Weth and S.J. Wachtel
Scale control in the high temperature distillation of saline waters by means of fluidized-bed heat exchangers 1(1966)156

Wethern M.

M. Wethern and W.Katzaras
Reverse osmosis treatment of municipal sewage effluent for industrial reuse 102(1995)293

Wey J.S.

J.S. Wey and J. Estrin
The growth and nucleation of ice in a batch Couette flow crystallizer 14(1974)103

Wheelwright S.

V. Mavrov, W. Pusch, O. Kominek and S. Wheelwright
Concentration polarization and water splitting at electrodialysis membranes 91(1993)225

Whitacker G.

J.M. Dickson, G. Whitacker, J. DeLeeuw and J. Spencer
Dilute single and mixed solute systems in a spiral wound reverse osmosis module. Part II. Experimental data and application of the model 99(1994)1

White D. A.

D.A. White, R. Labayru, H.R. Obermoller and X. Deryde
The application of inorganic membranes to electrodialysis processes 84(1991)177

White J. L.

A.E. Allegrezza, Jr., B.S. Parekh, P.L. Parise, E.J. Swiniarski and J.L. White
Chlorine resistant polysulfone reverse osmosis modules 64(1987)285

Whitley C.

G. Filteau, C. Whitley and I. Watson
Water reclamation fuels economic growth in Harlingen, Texas. Reclamation of municipal wastewater for industrial process use 103(1995)31

Whitney D. C.

D.C. Whitney and J.R. Ten Eyck
Progressive coastal community implements both desalination and reuse in a comprehensive water resource program 87(1992)281

Whittaker H.

K. Volchek, L. Keller, D. Velicogna and H. Whittaker
Selective removal of metal ions from ground water by polymeric binding and microfiltration 89(1993)247

Whittenberg W.

P. Allen, W. Whittenberg and D. Argo
Planning to meet future water requirements by Orange County, California 23(1977)471

Widhalm H.

H. Löhrl-Thiel, A. Ejaz, J. Hapke, H. Widhalm and W. Heinrich
Investigations in regard of MSF desalination plant engineering during 7 years of operation 31(1979)159

Widmer F.

P. Schirg and F. Widmer
Characterisation of nanofiltration membranes for the separation of aqueous dye-salt solutions 89(1992)89

Widua J.

G.F. Tusel, R. Rautenbach and J. Widua
Seawater desalination plant "Sirte" - an example for an advanced MSF design 96(1994)379

Wie Jongmihn

A.D. Khawaji and Jongmihn Wie
Potabilization of desalinated water at Madinat Yanbu Al-Sinaiyah 98(1994)135

Wiegandt H.F.

H.F. Wiegandt, R.L. Von Berg and P.R. Patel
The crossflow piston bed 25(1978)303

H.F. Wiegandt and R.L. Von Berg
Myths about freeze desalting 33(1980)287

H.F. Wiegandt, A. Madani and P. Harriott
Ice crystallization developments for the butane direct-contact process 67(1987)107

Wightman J. P.

K.E. Kinzer, D.R. Lloyd, J.P. Wightman and J.E. McGrath
Asymmetric membrane preparation from nonsolvent casting systems 46(1983)327

Wilcock J.D.

J.D. Wilcock and M.A. Finan
Ensuring the safety of additives used in desalination plants to produce potable water: The role of independent approval agencies and comprehensive toxicological and ecotoxical product profiles 97(1994)443

Wild P. M.

P.M. Wild and G.W. Vickers
The technical and economic benefits of centrifugal reverse osmosis desalination 89(1992)33

Wilde D.J.

J.H. Beamer and D.J. Wilde
The simulation and optimization of single effect multi-stage flash desalination plant 9(1971)259

Wiley D. E.

D.E. Wiley, C.J.D. Fell and A.G. Fane
Optimisation of membrane module design for brackish water desalination 52(1985)249

Wilf M.

P. Glueckstern, Y. Kantor and M. Wilf
Application of membrane processes for water supply in Israel 24(1978)365

P. Glueckstern, M. Wilf and Y. Kantor
Field testing and economic evaluation of RO seawater technology 30(1979)235

M. Wilf, M. Konstantin and A. Chencinsky
Evaluation of an ion-exchange system regenerated with seawater for the increase of product recovery of reverse osmosis brackish water plant 34(1980)189

M. Wilf and J. Ricklis
RO desalting of brackish water oversaturated with CaSO4 47(1983)209

M. Wilf and P. Glueckstern
Restoration of commercial reverse osmosis membranes under field conditions 54(1985)343

P. Glueckstern, M. Wilf, J. Etgar and J. Ricklis
Use of microprocessors for control, data acquisition and on line performance evaluation in a reverse osmosis plant 55(1985)469

P. Glueckstern, Y. Kantor, S. Kremen and M. Wilf
Desalination of high salinity brackish water. Low pressure reverse osmosis 58(1986)55

S. Kremen, M. Wilf and P. Lange
Operating results and economics of single stage and two stage large size sea water RO systems 82(1991)15

M. Wilf and K. Klinko
Performance of commercial seawater membranes 96(1994)465

Wilken G.

G. Wilken
Morphology of inhibitor-treated CaCO3 precipitate 33(1980)201

Wilkins N.J.M.

J.N. Wanklyn, N.J.M. Wilkins, D.R.V. Silvester, C.E. Austing and P.F. Lawrence
The corrosion of aluminium alloys in hot brine 9(1971)245

C.E. Austing, A.M. Pritchard and N.J.M. Wilkins
The formation and properties of Al/Mg scales on Al heat-exchange surfaces in desalination plant 12(1973)251

Williams F.A.

T.J. Hendricks and F.A. Williams
Diffusion-layer structure in reverse osmosis channel flow 9(1971)155-180, Err. 9(1971)296

Williams, Jr. W.A.

W.A. Williams, Jr., J.O. Roberts and R.D. McFarren
Role of nuclear energy in desalination - A review of the United States Atomic Energy Commission's desalination development program, problem areas, and potential 5 suppl.(1969)51

Willis D.

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

Willis S.

B.A. Bolto, K. Eppinger, A.S. Macpherson, R. Siudak, D.E. Weill and S. Willis
An ion exchange process with thermal regeneration. IX. A new type of rapidly reacting ion-exchange resin 13(1973)269

Willocks G.

T.R. Blake and G. Willocks
Virgin Islands Water and Power Authority (VIWAPA) horizontal tube, falling film, low temperature 1.25 Mgd multi-effect distillation dual purpose plant 39(1981)311

Wilms D.A.

D.A. Wilms and A.A. van Haute
Thermodynamics and composition of chlorine hydrate 12(1973)379

Wilson J. R.

N. Arad, S.F. Mulford and J.R. Wilson
Prediction of large desalting plant availability factor 3(1967)378

Wilson W.

W. Wilson, A. Gruendisch and I. Calder-Potts
The use of Pelton wheel turbines for energy recovery in reverse osmosis systems 65(1987)231

Wimmerstedt R.

G. Eriksson, P. Eriksson, B. Hallström and R. Wimmerstedt
Membrane technology research at Lund Institute of Technology 27(1978)81

A.-S. Jönsson and R. Wimmerstedt
The application of membrane technology in the pulp and paper industry 53(1985)181

A.-S. Jönsson, R. Wimmerstedt and A.-C. Harrysson
Membrane distillation — A theoretical study of evaporation through microporous membranes 56(1985)237

M. Röhr and R. Wimmerstedt
A comparison of two commercial membranes used for biogas upgrading 77(1990)331

K. Linde, A. Jönsson and R. Wimmerstedt
Treatment of three types of landfill leachate with reverse osmosis 101(1995)21

Windelberg J.

T. Höpner and J. Windelberg
Elements of environmental impact studies on coastal desalination plants 108(1996)11

Windreich S.

D. Hasson, M. Avriel, W. Resnick, T. Rozenman and S. Windreich
Calcium carbonate scale deposition on heat transfer surfaces 5(1968)107

Winnicki T.

L. Pawlowski, J. Barcicki and T.Z. Winnicki
Chemical and physical degradation of some cation-exchange resins used in nitrate recovery from wastewaters 28(1979)243

T. Winnicki, G. Blazejewska and A. Mika-Gibala
Piezodialytic transport across charge-mosaic membranes 32(1980)77

G. Blazejewska-Wisniewska and T. Winnicki
Piezodialytic transport across charge-mosaic membranes 38(1981)461

G. Wisniewska, B. Cieploch and T. Winnicki
Laboratory investigation on electrodialytic desalination of brackish water 46(1983)275

A. Poranek and T. Winnicki
Oxygenation phenomena as a function of sintered polymer structure of air diffusers 48(1983)85

G. Wisniewska and T. Winnicki
Removal of nitrate ions acidic wastewater by Donnan dialysis involving tabular exchange membranes 56(1985)161

K. Majewska-Nowak and T. Winnicki
Decolorization of dye solutions by continuous ultrafiltration 60(1986)59

G. Wisniewska and T. Winnicki
Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes 68(1988)121

K. Majewska-Nowak, T. Winnicki and J. Wisniewski
Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents 71(1989)127

K. Majewska-Nowak, J. Wisniewski and T. Winnicki
Formation of UF rod-type membranes 78(1990)417

D. Grabska-Winnicka and T.Winnicki
Membrane separation in biological sewage treatment processes 83(1991)243

G. Wisniewska and T. Winnicki
Electrodialytic desalination of effluents from zinc-coating processes: Removal of Zn2+ and Cl- ions from model solutions 84(1991)163

K. Majewska-Nowak, J. Wisniewski and T. Winnicki
Modification of the properties of rod-type membranes by varying typical parameters of the casting process for phase inversion membranes: A comparative study 89(1992)47

G. Wisniewska, J. Wisniewski and T. Winnicki
Recovery of acid and water by membrane dialysis 91(1993)307

M. Kabsch-Korbutowicz and T. Winnicki
Application of modified polysulfone membranes to the treatment of water solutions containing humic substances and metal ions 105(1996)41

K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki
Capillary membranes for separation of dye particles 105(1996)91

K. Majewska-Nowak, M. Kabsch-Korbutowicz and T. Winnicki
Salt effect on the dye separation by hydrophilic membranes 108(1996)221

Winograd Y.

Y. Winograd and A. Solan
Concentration build-up in reverse osmosis in turbulent flow 7(1969)97

Y. Winograd and A. Solan
Optimal perforation spacing in reverse osmosis support tubes 8(1970)237

A. Solan, Y. Winograd and U. Katz
An analytical model for mass transfer in an electrodialysis cell with spacer of finite mesh 9(1971)89

Y. Winograd, A. Solan, and M. Toren
Mass transfer in narrow channels in the presence of turbulence promoters 13(1973)171-186, Err. 13(1973)395

Y. Winograd, M. Toren and A. Solan
Reverse osmosis in shell and tubes 14(1974)173

Winters H.

H. Winters and I.R. Isquith
In-plant microfouling in desalination 30(1979)387

H. Winters, I.R. Isquith and R. Bakish
Influence of desalination effluents on marine ecosystems 30(1979)403

H. Winters, I. Isquith, W.A. Arthur and A. Mindler
Control of biological fouling in seawater reverse osmosis desalination 47(1983)233

H. Winters
Two seawater reverse osmosis plants at high pressure and 50% conversion 66(1987)189

H. Winters
Control of organic fouling at two seawater reverse osmosis plants 66(1987)319

I.R. Isquith and H. Winters
The microbial analysis of domestic cistern water in the U.S. Virgin Islands 66(1987)415

L.E. Applegate, C.W. Erkenbrecher, Jr. and H. Winters
New chloramine process to control aftergrowth and biofouling in PermasepR B-10 RO surface seawater plants 74(1989)51

H. Winters
Three-year experience of a seawater RO plant operating at a conversion greater than 50% in the Cayman Islands 74(1989)183

H. Winters
Twenty years experience in seawater reverse osmosis and how chemicals in pretreatment affect fouling of membranes 110(1997)93

Wisniewska G.

G. Wisniewska, B. Cieploch and T. Winnicki
Laboratory investigation on electrodialytic desalination of brackish water 46(1983)275

G. Wisniewska and T. Winnicki
Removal of nitrate ions acidic wastewater by Donnan dialysis involving tabular exchange membranes 56(1985)161

G. Wisniewska and T. Winnicki
Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes 68(1988)121

G. Wisniewska and T. Winnicki
Electrodialytic desalination of effluents from zinc-coating processes: Removal of Zn2+ and Cl- ions from model solutions 84(1991)163

G. Wisniewska, J. Wisniewski and T. Winnicki
Recovery of acid and water by membrane dialysis 91(1993)307

J. Wisniewski and G. Wisniewska
Acids and iron salts removal from rinsing water after metal etching 109(1997)187

Wisniewski J.

K. Majewska-Nowak, T. Winnicki and J. Wisniewski
Effect of flow conditions on ultrafiltration efficiency of dye solutions and textile effluents 71(1989)127

K. Majewska-Nowak, J. Wisniewski and T. Winnicki
Formation of UF rod-type membranes 78(1990)417

K. Majewska-Nowak, J. Wisniewski and T. Winnicki
Modification of the properties of rod-type membranes by varying typical parameters of the casting process for phase inversion membranes: A comparative study 89(1992)47

G. Wisniewska, J. Wisniewski and T. Winnicki
Recovery of acid and water by membrane dialysis 91(1993)307

J. Wisniewski and S. Suder
Water recovery from etching effluents for the purpose of rinsing stainless steel 101(1995)245

J. Wisniewski and G. Wisniewska
Acids and iron salts removal from rinsing water after metal etching 109(1997)187

Witt E.

R.B. Hodgdon, E. Witt and S.S. Alexander
Macroreticular anion exchange membranes for electrodialysis in the presence of surface water foulants 13(1973)105

Wöhlk W.

R. Rautenbach, H. Offermann, E.E. Hammer, W. Wöhlk and W. Linsteadt
An assessment of different scale control methods 47(1983)49

Wojcik C. K.

R.R. Doelle and C.K. Wojcik
Performance study of RO systems in Saudi Arabia 30(1979)315

C.K. Wojcik, J.G. Lopez and J.W. McCutchan
Application of reverse osmosis to reclamation of municipal wastewaters 32(1980)353

A.G. Maadhah and C.K. Wojcik
Performances study of water desalination methods in Saudi Arabia 39(1981)205

C.K. Wojcik
Desalination of water in Saudi Arabia by reverse osmosis. Performance study 46(1983)17

Wojslaw J. A.

J.A. Wojslaw, J.H. Grantham, M.L. Arora and K.M. Trompeter
Relationship between plugging index particle counts, and turbidity; commonly utilized parameters in the operation of RO facilities 48(1983)293

Wolberg J. R.

J.R. Wolberg
Analysis of the optimization of the design of flash evaporators 2(1967)299

Woldai A.

A. Husain, A. Hassan, D.M.K. Al-Gobaisi, A. Al-Radif, A. Woldai and C. Sommariva
Modelling, simulation, optimization and control of multistage flashing (MSF) desalination plants. Part I: Modelling and simulation 92(1993)21

A. Kurdali, A. Woldai and D.M.K. Al-Gobaisi
Knowledge based systems for desalination processes 92(1993)295

D.M.K. Al-Gobaisi, A. Hassan, G.P. Rao, A. Sattar, A. Woldai and R. Borsani
Towards improved automation for desalination processes. Part I: Advanced control 97(1994)469

A. Husain, A. Woldai, A. Al-Radif, A. Kesou, R. Borsani, H. Sultan and P.B. Deshpandey
Modelling and simulation of a multistage flash (MSF) desalination plant 97(1994)555

Wolfe T.D.

T. Hamano, P.B. Chebi, L. Gerdes and T.D. Wolfe
The development of a new electrodialysis system for brackish water 96(1994)23

Wong P.

P. Wong, P. Docker, E. Gabbrielli and P. Wade
Management and construction of a major zero discharge water supply and teatment scheme at Mount Piper Power Station — Australia 98(1994)225

Wong S. G.

S.G. Wong and J.C.T. Kwak
Membrane potential measurements on cellulose acetate membranes 15(1974)213

Wong Yen Kiat

S. Vigneswaran and Wong Yen Kiat
Detailed investigation of effects of operating parameters of ultrafiltration using laboratory-scale ultrafiltration unit 70(1988)299

Wood D. K.

R.R. Yamada, J.K. Laughlin and D.K. Wood
Co-located seawater desalination/power facilities: Practical and institutional issues 102(1995)279

Wood F. C.

F.C. Wood and R. Herbert
The characteristics of dual-process distillation plant combining vapour compression and multi-stage-flash evaporators 5 suppl.(1969)535

K.D.B. Johnson, W.H. Denton, J.R. Grover, R.I. Hawes, T.D. Hodgson, O. Pugh, M.C. Tanner and F.C. Wood
Review of the fourth international symposium on fresh water from the sea, Heidelberg, September 9-14, 1973 14(1974)379

F.C. Wood, H.J. Woodthorpe and Y.N. Wu
The Hong Kong 40 mgd desalination plant: Its design features and performance during the first year of operation 20(1977)319

F.C. Wood and Y.N. Wu
Comparison of corrosion and scaling behaviour of two acid-dosed MSF seawater distillation plants 30(1979)347

F.C. Wood
Trends in the major cost components of MSF desalting and their implications for future thermal desalting plant 40(1982)327

F.C. Wood
The changing face of desalination. A consulting engineer's viewpoint 42(1982)17

R.C. Squires, J.A.C. Cowan and F.C. Wood
The desalination of coalmine drainage water by reverse osmosis 47(1983)343

Woodcock D. J.

D.J. Woodcock and I. Morgan White
The application of Pelton type impulse turbines for energy recovery on sea water reverse osmosis systems 39(1981)447

Woodthorpe H. J.

F.C. Wood, H.J. Woodthorpe and Y.N. Wu
The Hong Kong 40 mgd desalination plant: Its design features and performance during the first year of operation 20(1977)319

Worboys J.C.

H.A.J. Battaerd, N.V. Blesing, B.A. Bolto, A.F.G. Cope, G.K. Stephens, D.E. Weiss, D. Willis and J.C. Worboys
Ion-exchange process with thermal regeneration. VIII. Preliminary pilot plant results for the partial demlneralisation of brackish waters 12(1973)217

Worsfold R.

R. Rawson, R. Larson, R. Shuchman and R. Worsfold
The capability of SAR systems for iceberg detection and characterization 29(1979)109

Wouters J. W.

J.C. van Dijk, B.R. Munneke, B. Kramer and J.W. Wouters
Membrane filtration: A realistic option in the field of water supply? 81(1991)229

W.F.J.M. Nooijen and J.W. Wouters
Optimizing and planning of seawater desalination 89(1992)1

Wrubl C.

C. Sommariva, R. Borsani, P. Peluffo, A. Mollica and C. Wrubl
Titanium exchange tubes for MSF desalination plant. A study on the aspects relevant to the adoption of this material 97(1994)53

Wu Jiangjing

Liu Gouxin and Wu Jiangjing
The development of polysulfonamide membrane and its application in treating chromium plating wastewater 62(1987)239

Wu Lingling

Wang Shu-sen, Ling Ai-lian, Wu Ling-ling, Gao Yi-yuan, Liu Shu-xiu, Wang Zhi-zhou, Sheng Li-ming and Kang De-kuan
Polysulfonamide as a membrane material 62(1987)221

Wu Qiulin

Wu Qiulin, Cong Lanbo and Liu Qingshang
The mechanism of membrane phase separation 62(1987)69

Wu Y. N.

F.C. Wood, H.J. Woodthorpe and Y.N. Wu
The Hong Kong 40 mgd desalination plant: Its design features and performance during the first year of operation 20(1977)319

F.C. Wood and Y.N. Wu
Comparison of corrosion and scaling behaviour of two acid-dosed MSF seawater distillation plants 30(1979)347

Wu Yonglie

E. Drioli and Yonglie Wu
Membrane distillation: an experimental study 53(1985)339

Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu
An experimental study on membrane distillation-crystallization for treating waste water in taurine production 80(1991)235

Wyatt T.

P.A. Mawer and T. Wyatt
Planning and operational studies in the integrated use of desalination. Case studies for Cyprus and Jersey 13(1973)333

Wyszynski D.

D. Düputell, E. Staude and D. Wyszynski
Sorption of human albumin and endotoxin on uncharged and charged ultrafiltration membranes made from polysulfone and polyethersulfone 95(1994)75

Xiu Weiping

Jiang. Ji, Minling Fei, Guanghui Fan, Jiayian Chen, Guobin Li and Weiping Xiu
The nucleation of organic additives in membrane casting solution (I). (The theory and direct evidence) 85(1992)297

Xu Jingwen

Xu Jing-wen
Close-recycling of industrial liquid waste 67(1987)299

Xu Jiping

Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu
An experimental study on membrane distillation-crystallization for treating waste water in taurine production 80(1991)235

Xu Kejun

Xu Kejun, Wang Schichang and Yang Yaozhong
Solutions for problems in corrosion and environmental impact on 2x3000 m3/d MSF desalination plants 97(1994)159

Xu Rongan

Bingchen Hu, Deqian Ren, Rongen Xu and Dingyi Yu
The development of the spiral-wound reverse osmosis (RO) modules 54(1985)105

Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu
Long-term tests on a model SRO-80-1000 spiral-wound RO prototype 62(1987)233

Xu Shuguang

Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and T. Matsuura
Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes 85(1991)1

Xu Wei

Zhu Changluo, Liu Moe and Xu Wei
Separation of ethanol-water mixtures by pervaporation-membrane separation process 62(1987)299

Xu Xiequing

Xu Xie-quing
Additives for the preparation of polysulfone-based ultrafiltration membranes, especially for hemodialysis and hemo-osmometer 48(1983)79

Xu Zhili

Xu Zhi-li
Preparation of NF ion-exchange membranes via radiation-induced grafting and their application 62(1987)259

Xue Deming

Xue Deming, Song Dezheng and Liu Xiaoying
The treatment of cupric chloride solution after the etching process by ion exchange membrane electrodialysis 62(1987)251

Xuewu Ge

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Yabe K.

M. Oinuma, S. Sawada and K. Yabe
New pretreatment systems using membrane separation technology 98(1994)59

Yabushita T.

S. Takadono, H. Iwahori, T. Yabushita, Y. Imamura, H. Ishizuka and S. Tamaru
Treatment of highly fouling waste waters with tubular membrane systems 49(1984)347

Yacoub S. H.

S. Abdalla and S.H. Yacoub
Feasibility prediction of potable water production using waste heat from refuse incinerator hooked up at Stirling cycling machine 64(1987)491

O.K. Buros and S. Yacoub
Water supply and desalination in Northwestern Egypt 73(1989)47

Yadav S.

R.C. Srivastava and S. Yadav
Formation of multilayers of liquid membrane at the cellulose acetate membrane/water interface 28(1979)291

Yadav Y. P.

G.N. Tiwari, K. Mukherjee, K. Ashok and Y.P. Yadav
Comparison of various designs of solar stills 60(1986)191

Y.P. Yadav and G.N. Tiwari
Monthly comparative performance of solar stills of various designs 67(1987)565

Y.P. Yadav
Transient analysis of double-basin solar still integrated with collector 71(1989)151

Y.P. Yadav
Transient performance of a high temperature solar distillation system 82(1991)243

Y.P. Yadav
Performance analysis of a solar still coupled to a heat exchanger 82(1991)244

Y.P. Yadav
Performance analysis of a solar still coupled to a heat exchanger 91(1993)135

Y.P. Yadav
Transient performance of a high temperature solar distillation system 91(1993)145

Yagil R.

G.M. Berlyne and R. Yagil
Chemical drinking water standards, an example of guesswork? 13(1973)217

Yagodin G. A.

G.A. Yagodin, B.F. Nikolsky, N.F. Kuleshov and A.A. Svitsov
Solution of contradictory problem of simultaneous desalination and concentration in reverse osmosis 46(1983)171

Yajima K.

H. Ohya, K. Yajima and R. Miyashita
Design of reverse osmosis process 63(1987)119

Yamabe T.

T. Yamabe and M. Seno
Concentration polarization effect in ion exchange membrane electrodialysis 2(1967)148

T. Yamabe, K. Umezawa, S. Yoshida and N. Takai
Piezodialysis: Styrene-butadiene copolymer membranes 15(1974)127

M. Igawa, S. Yoshida, T. Yamabe and N. Takai
The permselective coefficient of inorganic ions on reverse osmosis membrane 17(1975)257

M. Igawa, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by dynamic membranes 22(1977)281

T. Yamabe
Present status of electrodialysis in Japan 23(1977)195

H. Nomura, M. Seno, H. Takahashi and T. Yamabe
Reverse osmosis by composite charged membranes 29(1979)239

Yamada R. R.

R.R. Yamada, J.K. Laughlin and D.K. Wood
Co-located seawater desalination/power facilities: Practical and institutional issues 102(1995)279

Yamada S.

J. Sakuma, T. Takagi, S. Yamada and Y. Kibe
Influence of scale prevention on corrosion of heat-transfer tube 14(1974)189

K. Ohta, H. Kaneda, M. Hirai, K. Kikuchi, Y. Murayama, S. Yamada, N. Sato, S. Masumi and E. Nishiyama
Experiments on RO process for production of boiler make-up water from sea water 56(1985)367

Yamada T.

Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama
Performance of reverse osmosis membrane in Jeddah Phase I plant 96(1994)215

Yamadera T.

Y. Murai, T. Yamadera and Y. Koike
An experience on re-use of waste water discharged from metal plating shop 23(1977)97

Y. Koike, T. Yamadera and S. Tsukahara
Some experiences on waste water re-use for automobile works 23(1977)141

Yamaguchi A.

T. Seto, L. Ehara, R. Komori, A. Yamaguchi and T. Miwa
Seawater desalination by electrodialysis 25(1978)1

Yamamoto K.

J.W. McCutchan, V. Goel, D.B. Brice and K. Yamamoto
Reclamation of irrigation field drainage water 19(1976)153

Yamamoto M.

K. Kohsaka, K. Kitaoka, Y. Masuyama, M. Oshiyama, M. Yamamoto and K. Kashida
Light gauge welded titanium tubes for seawater desalination plants 73(1989)429

K. Kashida, S. Morisaki, M. Oshiyama, K. Suzuki and M. Yamamoto
Application for light gauge titanium tube in a MSF type seawater desalination plant. A succesful fixing procedure of light gauge titanium tubes into copper alloy of tube sheets 97(1994)147

Yamamoto S.

K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
New composite charged reverse osmosis membrane 68(1988)109

Yamamoto T.

K. Yokoyama, Y. Ikenaga and T. Yamamoto
Operating characteristics of 30,000 t/d module MSF test plant 22(1977)151

K. Yokoyama, Y. Ikenaga, S. Inoue and T. Yamamoto
Analysis of start-up characteristics of commercial MSF plant 22(1977)395

Yamasaki K.

Y. Harada and K. Yamasaki
Treatment of wastewater and sludge by a catalytic wet oxidation process 98(1994)27

Yamauchi A.

A. Yamauchi, M. Shinoda and Y. Hirata
Membrane phenomena of an amphoretic membrane in mixed electrolyte solution 71(1989)277

A. Yamauchi, Y. Hirata and M. Shinoda
Relation between transport number and concentration of Donnan salt in membranes 80(1991)61

Yamauchi Y.

Y. Yamauchi, K. Tanaka, K. Hattori, M. Kondo and N. Ukawa
Remineralization of desalinated water by limestone dissolution filter 66(1987)365

Yan Wen

Yang Puchen, Yan Wen and Zhang Huixin
A graft modified cellulose acetate hollow fiber membrane 62(1987)99

Yan Zhong

Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun
An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage 62(1987)323

Yanaga Y.

Y. Ayyash, H. Imai, T. Yamada, T. Fukuda, Y. Yanaga and T. Taniyama
Performance of reverse osmosis membrane in Jeddah Phase I plant 96(1994)215

N. Fujiwara, T. Fukuda, Y. Yanaga, M. Sekino and T. Goto
The reference and analysis of a double-element type hollow fiber RO module in seawater desalination 96(1994)441

Yanagi C.

H. Tsuge, C. Yanagi and K. Mori
Desalination of sea water by reverse osmosis using tubular module 23(1977)235

C. Yanagi and K. Mori
Advanced reverse osmosis process with automatic sponge ball cleaning for the reclamation of municipal sewage 32(1980)391

G. Inoue, H. Ogasawara, C. Yanagi and Y. Murayama
Advanced treatment of secondary sewage effluent by membrane process 39(1981)423

C. Yanagi, M. Sato and Y. Takahara
Treatment of wheat starch waste water by a membrane combined two phase methane fermentation system 98(1994)161

Yanagishita H.

H. Yanagishita, H. Nozoye and T. Nakane
Preparation of 6FDA-based polyimide composite membranes by CVDP process 90(1993)55

Yang M. D.

C.Y. Cheng, W.C. Cheng and M.D. Yang
The vacuum freezing multiple phase transformation process 67(1987)139

Yang Pucheng

Yang Puchen, Yan Wen and Zhang Huixin
A graft modified cellulose acetate hollow fiber membrane 62(1987)99

Ji-hua Hao, Hai-ping Dai, Pu-cheng Yang, Jian-min Wei and Zhen Wang
Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis 107(1996)217

Yang Yaozhong

Xu Kejun, Wang Schichang and Yang Yaozhong
Solutions for problems in corrosion and environmental impact on 2x3000 m3/d MSF desalination plants 97(1994)159

Yao Fubao

Fubao Yao et al.
Study on electrodialysis reversal (EDR) process 56(1985)315

Yao Tzu Li

Yao Tzu Li and I Chien Ho
Orbital tube evaporation and distillation systems 65(1987)87

Yarisawa T.

T. Hakuta, T. Okubo, T. Yarisawa, S. Tomizawa, I. Hayano, T. Goto, K. Tawara and S. Ishizaka
Sludge depositions in a long tube-high flow MSF test plant 17(1975)87

T. Hakuta, T. Goto, S. Ishizaka and T. Yarisawa
Concentration of heavy water in seawater distillation process 25(1978)61

Yarlagadda S.

S. Yarlagadda and H.G. Spencer
Hyperfiltration properties of a zirconium (IV) hydrous oxide-polyacrylate membrane in electrolyte-alcohol-water solutions 79(1990)37

Yaroshchuk A.

A. Yaroshchuk and E. Staude
Charged membranes for low pressure reverse osmosis properties and applications 86(1992)115

Yaroshevsky D. A.

V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
Optimization of electrodialysis process at elevated temperatures 46(1983)253

Yawataya T.

Y. Oda and T. Yawataya
Neutrality-disturbance phenomenon of membrane-solution systems 5(1968)129

Ye Hongwei

Jiang Weida, Li Yebing and Ye Hongwei
Study of the structure of the polyethylene-styrene copolymer by NMR 62(1987)373

Yeatts L.B.

L.B. Yeatts, P.M. Lantz and W.L. Marshall
Calcium sulfate solubility in brackish water concentrates and applications to reverse osmosis processes: Polyphosphate additives 15(1974)177

Yegorov D. P.

O.I. Martynova, L.G. Vasina, A.V. Baglovsky, D.P. Yegorov, L.P. Karnauknov and V.A. Kozlov
Evaluation of thermal desalination plants water chemistry 47(1983)63

Yeh B.V.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza
Vapor-liquid equilibrium in capillary distillation 81(1991)161

Yeh G.C.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza
Vapor-liquid equilibrium in capillary distillation 81(1991)161

Yeh M.S.

G.C. Yeh, B.V. Yeh, B.J. Ratigan, S.J. Correnti, M.S. Yeh, D.W. Pitakowski, W. Fleming, D.B. Ritz and J.A. Lariviere
Separation of liquid mixtures by capillary distillation 81(1991)129

G.C. Yeh, B.V. Yeh, S.T. Schmidt, M.S. Yeh, A.M. McCarthy and W.J. Celenza
Vapor-liquid equilibrium in capillary distillation 81(1991)161

Yeo I.

W. Reimann and I. Yeo
Ultrafiltration of agricultural waste waters with organic and inorganic membranes 109(1997)263

Yepes G.

G. Yepes
World Bank policies regarding assistance to desalination activities (in Spanish) 20(1977)439

Yevdokimov O. V.

V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
Optimization of electrodialysis process at elevated temperatures 46(1983)253

Yi-Yan Antonio

A. Yi-Yan
On the mechanism of selectivity — Cellulose acetate membranes 17(1975)367

Yiftah S.

F.S. Aschner, S. Yiftah and P. Glueckstern
Optimization and range of application of nuclear reactors and flash evaporators for sea water desalination 3(1967)82

Yin Peiyu

Ren Deqian, Hu Binghchen, Xu Rongan, Pan Lili and Yin Peiyu
Long-term tests on a model SRO-80-1000 spiral-wound RO prototype 62(1987)233

Yokomizo T.

T. Yokomizo
Ultrafiltration membrane technology for regeneration of building wastewater for reuse 98(1994)319

Yokota K.

H. Masuda, C. Kamizawa, K. Hata, K. Yokota, T. Sakai and M. Sato
Concentration of acetic acid in sulfite pulp evaporation drain by reverse osmosis 25(1978)89

Yokoyama K.

K. Yokoyama, Y. Ikenaga and T. Yamamoto
Operating characteristics of 30,000 t/d module MSF test plant 22(1977)151

K. Yokoyama, Y. Ikenaga, S. Inoue and T. Yamamoto
Analysis of start-up characteristics of commercial MSF plant 22(1977)395

Yokoyama R.

H. Tabata and R. Yokoyama
Five years of operating experience of large scale distillation test plant made of carbon steel 27(1978)3

Yokoyama S.

S. Itoh, A. Suzuki, T. Nakamura and S. Yokoyama
Production of heavy oil from sewage sludge by direct thermochemical liquefaction 98(1994)127

Yoo B. H.

R.J. Baker, A.G. Fane, C.J.D. Fell and B.H. Yoo
Factors affecting flux in crossflow filtration 53(1985)81

Yoshida S.

T. Yamabe, K. Umezawa, S. Yoshida and N. Takai
Piezodialysis: Styrene-butadiene copolymer membranes 15(1974)127

M. Igawa, S. Yoshida, T. Yamabe and N. Takai
The permselective coefficient of inorganic ions on reverse osmosis membrane 17(1975)257

Yoshida T.

T. Yoshida, S. Tsuneishi, K.-I. Hasegawa, H. Uchiyama, Y. Ueno and J. Koshitani
Effect of 1,3:2,4-dibenzylidene-D-sorbitol (DBS) additive on reverse osmosis properties of cellulose acetate membrane 22(1977)253

Yoshimura K.

M. Kurihara, N. Kanamaru, N. Harumiya, K. Yoshimura and S. Hagiwara
Spiral-wound new thin film composite membrane for a single-stage seawater desalination by reverse osmosis 32(1980)13

Yoshioka H.

M. Al-Arrayedh, B. Ericsson, M. Amin Saad and H. Yoshioka
Reverse osmosis desalination plant, RA's Abu Jarjur, State of Bahrain — Two years operational experience for the 46,000 m3/day RO plant 65(1987)197

Yoshioka N.

Y. Kamiyama, N. Yoshioka, K. Matsui and K. Nakagome
New thin-film composite reverse osmosis membranes and spiral wound modules 51(1984)79-92, Err. 51(1984)336

Yoshioka T.

S. Kawana, T. Yoshioka, H. Harashina and T. Mikuni
Seawater pretreatment by continuous sand filter for seawater RO (reverse osmosis) desalination plant 66(1987)339

M. Henmi and T. Yoshioka
Studies of ion-exchange fiber "IONEX" for precoating material 91(1993)319

Yoshitome H.

T. Sawa, K. Izumi, S. Takahashi and H. Yoshitome
The pH control in the large-scale MSF plants by using drop structure type decarbonator 22(1977)415

M. Matsuda, C. Kamizawa and H. Yoshitome
On the conditions of fabrication of tubular cellulose acetate membranes 27(1978)41

Younan N. G.

A.L.A. Malik, K.M. Mousa, N.G. Younan and B.J.R. Rao
Performance evaluation of three different seawater RO membranes at DROP in Kuwait 63(1987)163

A.L.A. Malik, N.G. Younan, B.J.R. Rao and K.M. Mousa
Skid mounted mobile brackish water reverse osmosis plants at different sites in Kuwait 75(1989)341

Young N. A.

J.M. English and N.A. Young
Long term investment considerations of conjunctive desalting systems 13(1973)359

Young R. F.

R.F. Young
Proposed Marin Desalination Plant — Siting criteria, evaluation and results 102(1995)171

Young T.-H.

Tai-Horng Young and Leo-Wang Chen
Pore formation mechanism of membranes from phase inversion process 103(1995)233

Younis M.A.

M.A. Younis, M.A. Darwish and F. Juwayhel
Experimental and theoretical study of a humidification-dehumidification desalting system 94(1993)11

Yousef F.A.

M.A. Darwish, F.A. Yousef and N.M. Al-Najem
Energy consumptions and costs with a multi-stage flashing (MSF) desalting system 109(1997)285

N.M. Al-Najem, M.A. Darwish and F.A. Youssef
Thermovapor compression desalters: Energy and availability — Analysis of single- and multi-effect systems 110(1997)223

Yovchev see Iovchev M.

M. Yovchev
The effect of a magnetic field on steam purity 11(1972)379

Yu Boshan

Boshan Yu and Quan Li
Removal of chlorine from dilute salt aqueous solution with a flat microporous membrane 90(1993)335

Yu Dingyi

Bingchen Hu, Deqian Ren, Rongen Xu and Dingyi Yu
The development of the spiral-wound reverse osmosis (RO) modules
54(1985)105

Yu Jianhan

Yu Jianhan, Wang Shizhu, Ma Nianci and Jiang Changyin
Extraction of zinc in an Oldshue-Rudston column by liquid surfactant membranes
62(1987)315

Yu Xianda

Yu Xianda, Wang Anlai and Cao Suqin
Water-vapor permeability of polyvinyl alcohol films 62(1987)293

Yu Y. -L.

W. Pusch, Y.-L. Yu and L.-Y. Zheng
Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions
75(1989)3

Yu Yaochuan

Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun
An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage 62(1987)323

Yuanqi Zhang

Li Shuguang, Jiang Chengzhang and Zhang Yuanqi
The investigation of solution thermodynamics for the polysulfone—DMAC—water system
62(1987)79

Yuceer A.

W.T. Hanbury, A. Yuceer, M. Tzimopoulos and C. Byabagambi
Pressure drops along the bores of hollow fibre membranes: Their measurement, prediction and effect on fibre bundle performance 38(1981)301

W.T. Hanbury and A. Yuceer
Constriction of B10 hollow fibre bore diameters under operating condition
54(1985)27

Yuda M.

O. Miyatake, T. Tomimura, Y. Ide, M. Yuda and T. Fujii
Effect of liquid temperature on spray flash evaporation 37(1981)351

Yui N.

Y. Kurokawa, T. Tsuchiya and N. Yui
Application of regular solution theory to organic solute rejection by reverse osmosis
29(1979)233

Y. Kurokawa, M. Kurashige and N. Yui
A viscoelastic model for initial flux decline through reverse osmosis membrane
52(1984)9

Yung D.

R.F. Probstein, A.A. Sonin and D. Yung
Brackish water salt rejection by porous hyperfiltration membranes 13(1973)303

Yunlan Guo

Guo Yunlan, Shi Mingren and Hu Jiajun
Optimization in the preparation of polysulfone ultrafiltration membranes
62(1987)173

Yushina Y.

Y. Yushina and J. Hasegawa
Process performance comparison of membrane introduced anaerobic digestion using food industry waste water
98(1994)413

Yusufova V.D.

V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range
25(1978)269

V.D. Yusufova, G.P. Ugrekelidze and A.I. Bronshtein
The rate of heat transfer of seawater and NaCI solutions under conditions of one- and two-phase flow in tubes 26(1978)175

Zabolotsky V. I.

V.I. Zabolotsky, N.D. Pismenskaya, E.V. Laktionov and V.V. Nikonenko
Prediction of the behavior of long electrodialysis desalination channels through testing short channels
107(1996)245

N.D. Pismenskaya, E.V. Laktionov, V.V. Nikonenko and V.I. Zabolotsky
Choosing the electrodialyzer design and hydraulic modes for demineralization of dilute solutions 108(1996)149

V.I. Zabolotsky, V.V. Nikonenko, N.D. Pismenskaya and A.G. Istoshin
Electrodialysis technology for deep demineralization of surface and ground water 108(1996)179

Zachariah M. R.

J. Glater, M.R. Zachariah, S.B. McCray and J.W. McCutchan
Reverse osmosis membrane sensitivity to ozone and halogen disinfectants
48(1983)1

Zaczek S.

A. Al-Azzaz, J. Abrams, S. Zaczek and L. Awerbuch
Jeddah stack emissions problems and solutions 73(1989)459

Zadorecki P.

P. Zadorecki
Selection of membranes for treatment of bleaching effluents 62(1987)137

Zagouras N. G.

Y.G. Caouris, E.T. Kantsos and N.G.Zagouras
Economic aspects of low-temperature multi-effect desalination plants
71(1989)177

N.G. Zagouras and E.T. Kantsos
Engineering relations for economic production functions of solar low-temperature multi-effect desalination
78(1990)381

Zaikov G.E.

A.L. Iordanskii, V.S. Markin, L.P. Razumovskii, R.Y. Kosenko, N.A. Tarasova and G.E. Zaikov
Diffusion model of protein adsorption and effect of protein layer composition on water permeability for ultrafiltration membranes 104(1996)113

Zaki G. M.

A.A. Madani and G.M. Zaki
Prospective of two small water producing units 73(1989)167

Zama M.

Y. Fujioka, M. Soda, M. Zama and I. Shimizu
Prevention of the scale trouble of multi-effect stacked desalination plant
73(1989)371

Zanelli

L. Gasparini, Giuffrida, Zanelli, G. Migliorini and Franzosi
Technical and economical valuation on the coupling of a low temperature multiple effect (LTME) plant to solar collector systems 31(1979)457

Zangen M.

A. Cohen, M. Zangen, M. Koenigsbuch and J.M.E. Goldschmidt
Studies on alkaline earth sulfites. III. Transient solubilities and phase changes of calcium sulfite in seawater 41(1982)215

Zannoni R.

A. De Maio, G. Odone, E. Palmisano and R. Zannoni
An advanced method for sea water chemical treatment in MSFD plants 31(1979)321

A. de Maio, R. Zannoni, A. Ronzoni, G. Boari, L. Liberti and M. Santori
Results of four years of operation at high temperature (150°C) of Bari's desalination plant 45(1983)197

R. Zannoni, A. de Maio, G. Odone and G. Coliva
Prototype test results for Doha West (Kuwait) 4 x 6 Migpd desalination plants. Report on the main design data of the above plants 45(1983)337

R. Zannoni, A. de Maio, G. Odone, F. Fioravanti, G. Boari, L. Liberti and M. Santori
Desulphation new applications: Doha East (Kuwait) and Gela (Italy) desalination plants 47(1983)93

R. Zannoni, F. Fantini, M. Haruni, T. Abu Ihweig and G. Boari
Reverse osmosis desulphation pretreatment: new prototype application 54(1985)333

R. Zannoni, I. Resini and R. Lucenti
Design and construction of 4 X 1440 t/day MSF plants at Brindisi's power station (Italy): Acid/antiscale additive treatment for 100°C top brine temperature 66(1987)109

P. Zini, R. Zannoni and R. Lucenti
Improved antiscaling treatment for desalination plants 66(1987)285

R. Zannoni, I. Resini, L. Liberti, M. Santori and G. Boari
Desulphation pretreatment for 138°C (280°F) operation: Performance test of a 1 MGD plant at Doha East (Kuwait) power station 66(1987)431

G. Boari, L. Liberti, R. Zannoni, F. Fantini, M. Haruni and T. Abu Ihweig
Desulphation pretreatment for reverse osmosis: Field experiences in the State of Qatar 66(1987)443

R. Zannoni, A. Bonacini, G. Micale, G. Boari, V. Terranova and Giudice
Sea water desulphation pretreatment for a 14400 m3/day MSF desalination unit at Gela Petrochemical Plant 82(1991)337

R. Zannoni, A. Bonacini, M. Musatti and I. Resini
Limestone hardening system for Brindisi's power station: First limestone recarbonation unit installed in Italy for industrial water production 82(1991)351

Zaostrovsky F. P.

V.B. Chernozubov, F.P. Zaostrovsky, V.G. Shatsillo, S.I. Golub, E.P. Novikov and V.I. Tkach
Prevention of scale formation in distillation desalination plants by means of seeding 1(1966)50

F.P. Zaostrovsky, E.P. Novikov, V.G. Shatsillo, S.I. Golub, V.B. Chernozubov and V.I. Tkach
Distillation desalination plant in the City of Shevchenko. Layout, equipment and operating experience 1(1966)165

Zaplana Gomila F.

R. Edlinger and F. Zaplana Gomila
Ibiza seawater RO — Special design features and operating data 105(1996)125

Zarza E.

A. Gregorzewski, K. Genthner, E. Zarza, J. Leon, J. De Gunzbourg, G. Alefeld and J. Scharfe
The solar thermal desalination research project at the Platforma Solar de Almeria 82(1991)145

B. Milow and E. Zarza
Advanced MED solar desalination plants. Configurations, costs, future — Seven years of experience at the Platforma Solar de Almeria (Spain) 108(1996)51

Zebrowski D.

R. Rautenbach, P. Monheim and D. Zebrowski
MSF-seawater desalination plants using waste heat from electric-arc furnaces in the steel industry 31(1979)197

Zeddita G.

C. Fabiani, M. Pizzichini, M. Spadoni and G. Zeddita
Treatment of waste water from silk degumming processes for protein recovery and water reuse 105(1996)1

Zeglin K.

J. Kurbiel, K. Zeglin and S.M. Rybicki
Implementation of the Cracow municipal wastewater reclamation system for industrial water reuse 106(1996)183

Zeigerson E.

D. Kertész, F. de Körösy and E. Zeigerson
Advances in the electrochemistry of permselective membranes 2(1967)161

F. de Körösy and E. Zeigerson
Interaction of permselective membranes and their counter-ions 5(1968)185

Zelingher N.

M. Avriel and N. Zelingher
A computer method for engineering and economic evaluation of electrodialysis plants 10(1972)113

N. Zelingher
Mass transport through cellulose acetate membranes — A new concept 27(1978)189

Zelman A.

A. Zelman, D. Walsh, H. Wayt and D. Gisser
Rapid filtration of non-electrolytes by electroosmosis 25(1978)253

Zhang Chaojun

Guanghui Fan, Chaojun Zhang and Lingying Zheng
The study of action of organic additives in polysulfonamide UF membranes 56(1985)325

Zhang Dafang

Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang
The 200 MW nuclear heating reactor and its possible application in seawater desalination 99(1994)367

Zhang Donghua

Tinghui Liu, Shuguang Xu, Donghua Zhang, S. Sourirajan and T. Matsuura
Pore size and pore size distribution on the surface of polyethersulfone hollow fiber membranes 85(1991)1

Zhang G. S.

A. Rushton and G.S. Zhang
Rotary microporous filtration 70(1988)379

Zhang H.

H. Zhang and U. Werner
Characterization of surface change properties of synthetic microfiltration membranes by means of a streaming current method 79(1990)271

S.N. Gaeta, H. Zhang, E. Drioli and A. Basile
Polyorganophosphazene membranes: Preparation and transport properties 80(1991)181

Zhang Hong

Hong Zhang, Xuanrong Zheng and Jifang Lin
The application of MEMS flash in reuse of alkalinous waste water 56(1985)121

Zhang Huanxin

Wang Zhenkun, Zhang Huanxin and Chan Ruiying
A new type of porous membrane filter for the regulation of dust and the removal of particles from aqueous solutions 62(1987)165

Zhang Huixin

Yang Puchen, Yan Wen and Zhang Huixin
A graft modified cellulose acetate hollow fiber membrane 62(1987)99

Zhang Jintao

Yonglie Wu, Ying Kong, Jingzhi Liu, Jintao Zhang and Jiping Xu
An experimental study on membrane distillation-crystallization for treating waste water in taurine production 80(1991)235

Zhang L.

L. Zhang and H.G. Spencer
Selective separation of proteins by microfiltration with formed-in-place membranes 90(1993)137

Zhang Lingying

Chen Jiayan, Bi Shuchun, Zhang Xingda and Zheng Lingying
Morphology of aromatic polyamide type asymmetric reverse osmosis membranes 34(1980)97

Zhang Meng

Sun Xiuzhen, Zhang Meng, Lu Xueren and Gao Congjie
Performance and structure of dry polysulfonamide (PSA) ultrafiltration membranes 62(1987)353

Zhang Shiqiu

Shi Qiu Zhang, A.E. Fouda, T. Matsuura and Kam Chan
Some experimental results and design calculations for reverse osmosis concentration of green tea juice 80(1991)211

A. Fouda, J. Bai, S.Q. Zhang, O. Kutowy and T. Matsuura
Membrane separation of low volatile organic compounds by pervaporation and vapor permeation 90(1993)209

Zhang W.

W. Zhang, M. Wahlgren and B. Sivik
Membrane characterization by the contact angle technique. II. Characterization of UF-membranes and comparison between the captive bubble and sessile drop as methods to obtain water contact angles 72(1989)263

W. Zhang and B. Hallström
Membrane characterization using the contact angle technique. I. Methodology of the captive bubble technique 79(1990)1

Zhang Weirun

X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li
Effect of characterizations of spacer in electrodialysis cells on mass transfer 46(1983)243

Xuewen Zhong, Weirun Zhang, Zhaoying Hu and Hungchai Li
Experimental study of flow distribution features in the electrodialyzer 56(1985)413

Zhang X.H.

X.H. Zhang
A way to solve trouble encountered in one RO system 96(1994)459

Zhang Xingda

Chen Jiayan, Bi Shuchun, Zhang Xingda and Zheng Lingying
Morphology of aromatic polyamide type asymmetric reverse osmosis membranes 34(1980)97

Zhang Yuanqi

Fudu Miao, Xinpei Li and Yuanqi Zhang
The mathematical modeling of the removal of phenol with emulsified liquid membranes 56(1985)355

Zhao Baoquan

Guanghu Fan, Baoquan Zhao, Jiayan Chen and Lingying Zheng
The mechanism of the formation of aromatic polyamide type asymmetric RO membranes 46(1983)321

Zhao Qingshuang

Hao Jihua, Wang Wentong, Yang Puchen and Zhao Qingshuang
The preparation of quaternized polysulfon membranes for low pressure reverse osmosis 83(1991)361

Jihua Hao and Qingshuang Zhao
The development of membrane technology for wastewater treatment in textile industry in China 98(1994)353

Zheng Lingying

Guanghu Fan, Baoquan Zhao, Jiayan Chen and Lingying Zheng
The mechanism of the formation of aromatic polyamide type asymmetric RO membranes 46(1983)321

Lingying Zheng
Reverse osmosis membrane research in China 50(1984)115

Lingying Zheng
The status of development and application of reverse osmosis and ultrafiltration technique in China 54(1985)151

Guanghui Fan, Chaojun Zhang and Lingying Zheng
The study of action of organic additives in polysulfonamide UF membranes 56(1985)325

Zheng Ling-Ying
Recent advances of reverse osmosis and ultrafiltration in China 70(1988)17

W. Pusch, Y.-L. Yu and L.-Y. Zheng
Solute-solute and solute-membrane interactions in hyperfiltration of binary and ternary aqueous organic feed solutions 75(1989)3

Hou Tai-Ping, Dong Sheng-Hua and Zhehg Ling-Ying
The study of mechanism of organic additives action in the polysulfone membrane casting solution 83(1991)343

Zheng Wenxiang

Dazhong Wang, Duo Dong, Wenxiang Zheng, Dafang Zhang and Lihua Wang
The 200 MW nuclear heating reactor and its possible application in seawater desalination 99(1994)367

Zheng Xuanrong

Hong Zhang, Xuanrong Zheng and Jifang Lin
The application of MEMS flash in reuse of alkalinous waste water 56(1985)121

Zheng Xuelun

Yan Zhong, Li Siya, Yu Yaochuan and Zheng Xuelun
An investigation into the breaking-down of water-in-oil type emulsions by means of pulsed voltage 62(1987)323

Zheng Yong-Zhuang

Ling Al-Lian, Zheng Yong-Zhuang, Bao Shi-Yao and Fan Song-Chun
An acrylonitrile copolymer material for membrane manufacture. III. Manufacture of a co-mixed UF membrane of AN-MMA binary copolymer and polyvinyl chloride 86(1992)291

Zhennan Wu

Zhennan Wu, Ge Xuewu, Lu Juan, Wang Fang, Shi Wenfang, Xu Haiyan and Luo Jian
Radiation induced grafting of acrylic acid onto polycarbonate membranes 62(1987)107

Zhong X.-W.

X.-W. Zhong, W.-R. Zhang, Z.-Y. Hu and H.-C. Li
Effect of characterizations of spacer in electrodialysis cells on mass transfer 46(1983)243

Zhong Xuewen

Xuewen Zhong, Weirun Zhang, Zhaoying Hu and Hungchai Li
Experimental study of flow distribution features in the electrodialyzer 56(1985)413

Zhou Haimei

Tao Zuyi and Zhou Haimei
Binary and ternary ion-exchange equilibria, SO42-—Cl-—NO3-—201 x 7 system 69(1988)125

Zhou J.

J. Zhou, H. Ohya and K. Matsumoto
Several engineering equations in the design of reverse osmosis plants 80(1991)15

Zhou Qixing

Qixing Zhou, Limei Dai and R.W. Bell
An integrated plan for town-enterprise wastewater reuse and wetland strategy: A case study 106(1996)439

Zhu Binghua

Bing-hua Zhu and Peng Cheng
The industrial application of ultrafiltration membranes 90(1993)119

Zhu Changluo

Zhu Chang-Lue and Shao Xin-Ming
A brief discussion of numerical simulation for pervaporation in capillary permeator 62(1987)283

Zhu Changluo, Liu Moe and Xu Wei
Separation of ethanol-water mixtures by pervaporation-membrane separation process 62(1987)299

Zhu Zhengyu

Chen Jiayan, Wang Liancheng and Zhu Zhengyu
Preparation of enzyme immobilized membranes and their self-cleaning and anti-fouling abilities in proteins separations 86(1992)301

Zhuang Shuzhong

J.J. Porter and Shuzhong Zhuang
Performance and fouling of inorganic tubular microfilters 107(1996)203

Zhurov N. N.

V.N. Smagin, N.N. Zhurov, D.A. Yaroshevsky and O.V. Yevdokimov
Optimization of electrodialysis process at elevated temperatures 46(1983)253

Zielinski J. M.

C.S. Slater, J.M. Zielinski, R.G. Wendel and C.G. Uchrin
Modeling of a small scale reverse osmosis systems 52(1985)267

Zimerman Z.

R. Matz and Z. Zimerman
Low-temperature vapour compression and multi-effect distillation of seawater. Effects of design on operation and economics 52(1985)201

Z. Zimerman
The water factory 88(1992)371

Z. Zimerman
Development of large capacity high efficiency mechanical vapor compression (MVC) units 96(1994)51

Zimmerer C.C.

C.C. Zimmerer and V. Kottke
Effects of spacer geometry on pressure drop, mass transfer, mixing behavior, and residence time distribution 104(1996)129

Zini P.

P. Zini, R. Zannoni and R. Lucenti
Improved antiscaling treatment for desalination plants 66(1987)285

Zisner E.

S.B. Sachs, E. Zisner and G. Herscovici
Hybrid reverse osmosis ultrafiltration membranes 18(1976)99

S.B. Sachs and E. Zisner
Waste water renovation by sewage ultrafiltration 20(1977)203

R. Matz, E. Zisner and G. Herscovici
Pressure driven membrane processes in the treatment of industrial effluents 24(1978)113

Zmeev U. L.

S.N. Filippov, A.G. Khomenko and U.L. Zmeev
Start-up of a thermocompression desalting plant without using external heat 4(1968)30

Zokhrabbekova G.U.

V.D. Yusufova, R.I. Pepinov, V.A. Nicolayev, G.U. Zokhrabbekova, N.V. Lobcova and T.D. Tuayev
Thermophysical properties of softened seawater and salt solutions over a wide temperature and pressure range 25(1978)269

Zonetti E.

D. Barba, A. Germaná, A. Salemme, G. Tagliaferri and E. Zonetti
Qatar desalination plants 26(1978)109

Zoontjes R. J. C.

H. Futselaar, R.J.C. Zoontjes, T. Reith and I.G. Rácz
Economic comparison of transverse and longitudinal flow hollow fiber membrane modules for reverse osmosis and ultrafiltration 90(1993)345

Zschocke P.

P. Zschocke and H. Strathmann
Solvent resistant membranes from poly(p -phenylene-terephthalamide) 34(1980)69

Zu Xueming

Changshen He and Xueming Zu
The development of cyanoethyl CA membrane for reverse osmosis 56(1985)191

Zuboli U.

S. Arazzini, R. Borsani, G. Migliorini and U. Zuboli
Economics of MSF plants: Influence of variations in the design parameters and use of different construction materials 52(1985)97

Zuckerman N.

N. Zuckerman
The Eilat 1,000,000 gpd multi-stage flash distillation plant operating experience 4(1968)167

N. Zuckerman
The Eilat 1,000,000 GPD multi-stage flash distillation plant — Third year of operation
6(1969)309

Zvezdov A.

I. Dobrevsky and A. Zvezdov
Investigation of pore structure of ion exchange membranes 28(1979)283

I. Dobrevsky, A. Zvezdov, V. Mavrov and K. Ivanova
Effect of the physical structure of the anion-exchange resins on their technological behaviour in ultra-pure water production 67(1987)163

Zvirin Y.

D. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to horizontal flows
33(1980)163

M. Bouscher, D. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to vertical flows
36(1981)307

M. Bouscher, P. Pnueli and Y. Zvirin
Rayleigh-Jeffreys stability of thermohaline stratified fluids subject to arbitrary temperature and salinity gradients
49(1984)17

Zydney A. L.

S.P. Palecek, S. Mochizuki and A.L. Zydney
Effect of ionic environment on BSA filtration and the properties of BSA deposits
90(1993)147